

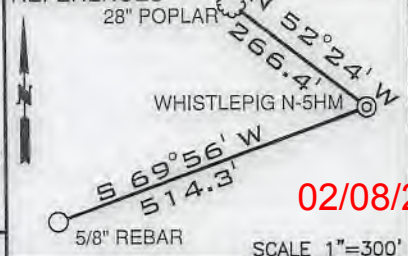
WHISTLEPIG LEASE WELL N-5HM 1043.245± ACRES

TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°50'00"

DETAIL SKETCH "A"

SCALE 1"=100'

REFERENCES

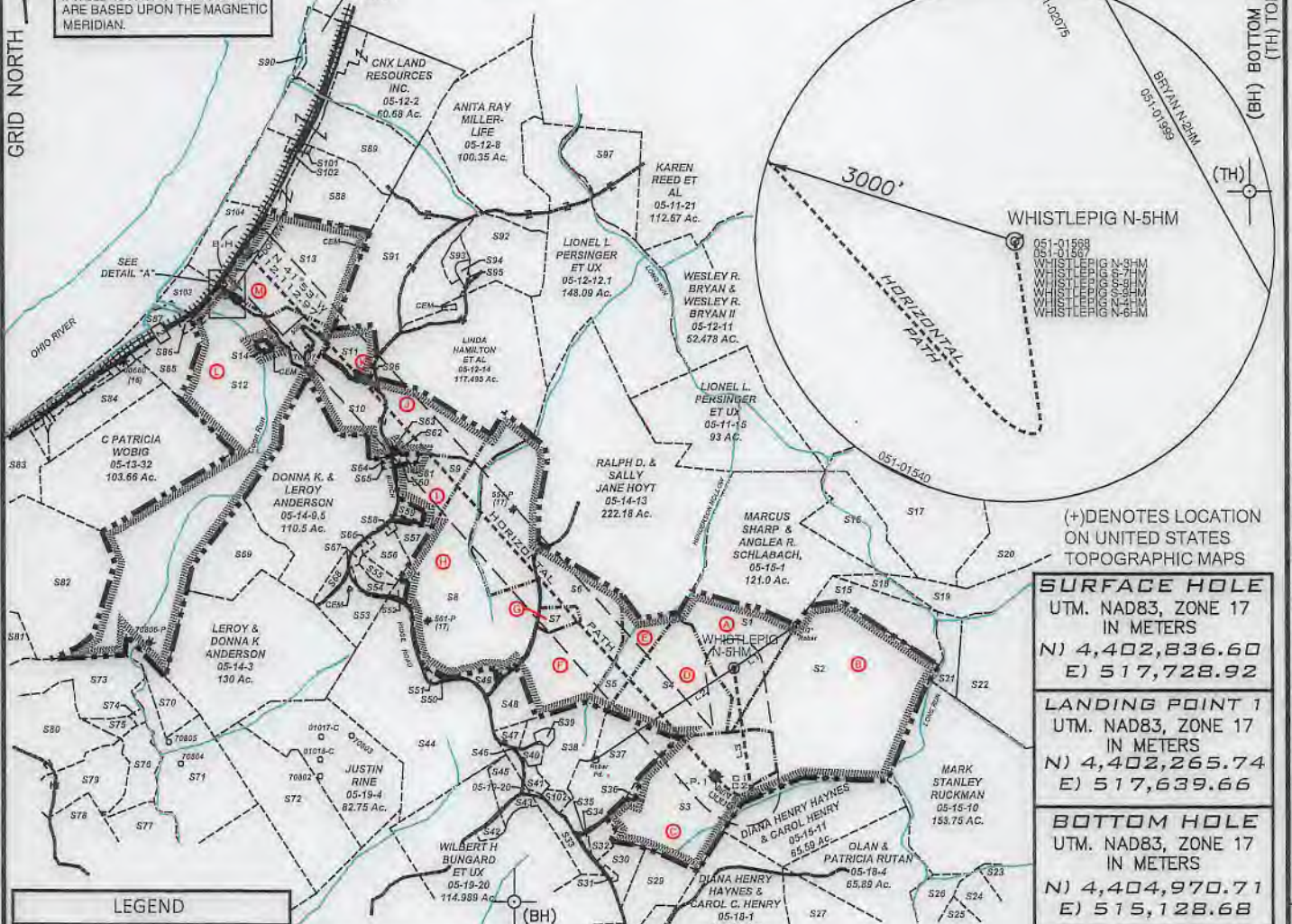


NOTES

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 NOVEMBER, 2018. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.



Consolidation Coal Company/Murray Energy
05-12-2.1
22.00 Ac.



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,836.60
E) 517,728.92

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,265.74
E) 517,639.66

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,404,970.71
E) 515,128.68

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

LINE	BEARING	DISTANCE
L1	N 55°30' E	1308.82'
L2	S 56°38' W	2879.70'
L3	S 07°53' E	2092.14'

NUMBER	CHORD DIRECTION	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 02°48' W	79.59	182.98	80.23
C2	S 46°31' W	79.86	79.99	83.72
C3	N 87°33' W	85.73	177.50	86.59
C4	N 67°59' W	122.51	513.74	122.80
C5	N 57°03' W	158.81	947.71	158.99
C6	N 46°56' W	296.57	1514.91	296.99

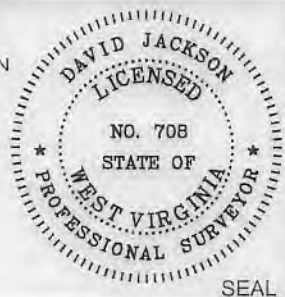
FILE NUMBER _____
DRAWING NUMBER: WHISTLEPIG_N-5HM_REV 0
SCALE: 1" = 3000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING
GRADE GPS

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

P.S. 708

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



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
DATE: NOVEMBER 28, 2018
OPERATORS WELL NO. WHISTLEPIG N-5HM
API WELL NO. 47-051-02138
STATE WV COUNTY MARSHALL PERMIT SEE WW-6A1 Form

LOCATION ELEVATION 1367.4' WATERSHED (HUC 10) FISH CREEK
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER ROBERT L. & REBECCA SHIELDS AND DONALD SHIELDS ACREAGE 49.0
OIL & GAS ROYALTY OWNER ROBERT L. & REBECCA SHIELDS AND DONALD SHIELDS LEASE ACREAGE 49.0
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION MARCELLUS PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
ESTIMATED DEPTH TVD: 6,689' TMD: 19,669'

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

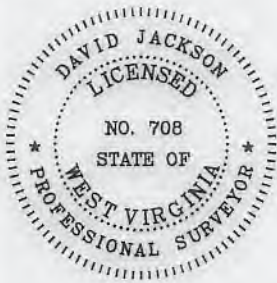
COUNTY NAME
PERMIT

**WHISTLEPIG LEASE
WELL N-5HM
1043.245± ACRES**

02/08/2019

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	A 05-15-15	Robert L. Shields & Rebecca Shields and Donald Shields	49.0
S2	B 05-15-12	John David Petrock, et ux	150.23
S3	C 05-19-13	Rona Lee Rice & Charles Franklin McCardle	94.925
S4	D 05-14-15	Robert L. Shields, et al	53.00
S5	E 05-14-14	Robert L. Shields, et al	29.05
S6	F 05-14-12	Dale R. Gallaher, et al	135.100
S7	G 05-14-12.1	Henry Wilson Plunkert, Jr.	5.00
S8	H 05-14-10	Wanda P. Rine (Life)	107.372
S9	I 05-14-9.2	Maria T. Flores	25.00
S10	J 05-12-21	Edward L. Gibson (Life)	73.436
S11	K 05-12-21.1	Robert W., Jr. & Wendy L. Riggerbach	14.222
S12	L 05-12-23	CNX Land Resources, Inc.	236.10
S13	M 05-12-06	CNX Land Resources, Inc.	70.81
S14	05-12-22	CNX Land Resources, Inc.	0.944
S15	05-15-14	John David Petrock, et ux	25.00
S16	05-15-03	Joseph J. Kramer, et ux	36.10
S17	05-15-05	Joseph J. Kramer, et ux	35.00
S18	05-15-02	John David Petrock, et ux	5.00
S19	05-15-6.1	Joseph J. Kramer, et ux	39.40
S20	05-15-06	Joseph J. Kramer, et ux	42.50
S21	05-15-13	CNX Land Resources, Inc.	11.00
S22	05-15-09	CNX Land Resources, Inc.	81.98
S23	05-18-15.4	Edward Lee Burge, Jr.	22.34
S24	05-18-15.3	Charles Yeater	26.44
S25	05-18-06	Charles Yeater	26.00
S26	05-18-05	Terry Melott	8.14
S27	05-18-03	Olan V. & Patricia E. Rutan	43.677
S28	05-19-14	James & Sherry Beegle and Ida Rutan	18.356
S29	05-19-30	Ernie & Tammy Anderson	19.037
S30	05-19-29	Ernie L. & Tammy L. Anderson	10.961
S31	05-19-15	B.J.Herran Revocable Trust	0.72
S32	05-19-12	Ernie L. Anderson, et ux	5.33
S33	05-19-09	Penny Elaine Menendez	10.00
S34	05-19-10	Ernie L. Anderson, et ux	0.8125
S35	05-19-11	Ernie L. Anderson, et ux	0.08
S36	05-19-13.1	Donald Shields	0.80
S37	05-19-08	CNX Gas Company, LLC	40.00
S38	05-19-07	Olan V. Rutan, et ux	32.4801
S39	05-19-7.4	Olan V. Rutan, et ux	1.787
S40	05-19-7.2	Olan Rutan	2.783
S41	05-19-7.1	Robert L. Shields, et ux	3.399
S42	05-19-20.3	Sidney Harmon	3.715
S43	05-19-20.1	John J. Ebert (Life)	3.848
S44	05-19-05	Margirene Keefe	126.03
S45	05-19-20.2	Casandra L. Harmon	7.448
S46	05-19-7.3	Olan V. Rutan, et ux	0.341
S47	05-19-06	Martha M. Rutan	5.1099
S48	05-14-11	Dale R. Gallaher, et al	12.00
S49	05-14-10.4	Adam & Jesse Robinson	3.343
S50	05-14-10.2	Ida Belle Rutan (Life) & Ralph R. Hoyt	0.495
S51	05-14-10.1	Ida Belle Rutan (Life) & Ralph R. Hoyt	0.50
S52	05-14-10.3	Vernie A. & Jody K. Rine	1.54

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S53	05-14-08	Lawrence Eugene Anderson	18.29
S54	05-14-9.3	Vernie A. Rine, et al	4.118
S55	05-14-9.4	Vernie A. Rine, et al	3.404
S56	05-14-09	Walter W. Streight, Jr., et ux	9.311
S57	05-14-9.5	Maria T. Flores	6.024
S58	05-14-19	Brian A. & Charlotte Mull	0.92
S59	05-14-9.1	Maria T. Flores	2.882
S60	05-12-18	Joni Lyn Leon	1.018
S61	05-12-17	Joni Lyn Leon	0.762
S62	05-12-16.1	Gary E. Gibson, et al	0.146
S63	05-12-16	Gary E. Gibson, et al	0.104
S64	05-12-20	Joni Lyn Leon	0.457
S65	05-12-19	Joni Lyn Leon	0.457
S66	05-14-17	Justin E. & Jody Rine	1.1044
S67	05-14-16	George E. Knuth	1.6386
S68	05-14-07	Donna K. & Leroy Anderson	4.60
S69	05-14-04	Leroy & Donna K. Anderson	29.29
S70	05-14-02	John B. Williams, Et Al	20.17
S71	05-19-02	Milton R. & Linda L. Neal	63.1
S72	05-19-03	Milton R. & Linda L. Neal	72.01
S73	05-13-42	Thomas & Victoria Bowman	45.0
S74	05-13-41C	Hrs. of Benton Darrah, Lillie May Dugan, Alma Bitmer, Alberta Palmer & Audrey Howard	1.0
S75	05-13-41B	Larry & Judy Darrah	2.50
S76	05-13-41A	Rodney & Rhonda Jackson	17.05
S77	05-19-01	Robert Rine	30.80
S78	05-20-25	Robert Rine	43.82
S79	05-13-40	Robert Rine	29.76
S80	05-13-39	Thomas & Victorica Bowman	46.0
S81	05-13-34	David J. Mast	40.0
S82	05-13-33	Nathan D. Yoder	142.03
S83	05-13-28	Aaron Paul Holdren, Et Ux	17.0
S84	05-13-31	CNX Land Resources, Inc.	31.723
S85	05-12-24.3	CNX Land Resources, Inc.	18.523
S86	05-12-24.1	W.V. D.O.H.	0.994
S87	05-12-25	CNX Land Resources, Inc.	12.8
S88	05-12-05	CNX Land Resources, Inc.	61.883
S89	05-12-03	CNX Land Resources, Inc.	62.30
S90	05-12-01	United States of America	1.68
S91	05-12-07	Robert Wm. Riggerbach, et ux	104.231
S92	05-12-13	Linda Hamilton, et al	41.887
S93	05-12-7.2	Raymond K. Miller	4.66
S94	05-12-7.1	Raymond K. Miller	1.609
S95	05-12-13.1	Raymond K. Miller	0.113
S96	05-12-15	Woodland Hill Church of God Trust	0.375
S97	05-12-12	Lionel L. Persinger, et ux	45.00
S98	05-12-6.1	W.V. D.O.H.	0.31
S99	05-12-23.3	W.V. D.O.H.	0.11
S100	05-12-23.1	James N. Daugherty	0.28
S101	05-12-5.1	CNX Land Resources, Inc.	0.52
S102	05-12-4	CNX Land Resources, Inc.	0.93
S103	05-12-23.2	Consolidation Coal Co./ Murray Energy + CNX Land Resources, Inc.	12.50
S104	05-12-6.2	Consolidation Coal Co./ Murray Energy	25.50



P.S. 708 *David L Jackson*

NOTES:
 05-13-41A MAPPED AS PART OF 05-13-41
 05-13-41B MAPPED AS PART OF 05-13-41, INCORRECTLY ASSESSED AS 05-25-22 4.15 ACRES
 05-13-41C MAPPED AS PART OF 05-13-41, NOT ASSESSED.

	OPERATOR'S	WELL PLAT
	WELL #: <u>Whistlepig N-5HM</u>	PAGE 2 OF 2
	DISTRICT: <u>Franklin</u>	DATE: <u>11/28/2018</u>
	COUNTY: <u>Marshall</u>	
	STATE: <u>WV</u>	