

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office of Oil & Gas
OCT 04 2022

WV Department of
Environmental Protection

API 47-051-02160 County Marshall District Franklin
Quad Powhatan Point 7.5' Pad Name Goudy Field/Pool Name _____
Farm name TH Exploration III, LLC Well Number Whistlepig N-4HM
Operator (as registered with the OOG) Tug Hill Operating, LLC
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,402,838.71 Easting 517,731.78
Landing Point of Curve Northing 4,403,232.17 Easting 517,057.11
Bottom Hole Northing 4,405,173.85 Easting 515,249.25

Elevation (ft) 1368.5' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 2/8/2019 Date drilling commenced 7/12/2019 spud: 7/12/2019 big rig: 6/22/2021 Date drilling ceased 7/10/2021
Date completion activities began 10/24/2021 Date completion activities ceased 11/13/2021
Verbal plugging (Y/N) N Date permission granted n/a Granted by n/a

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 1007' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1393' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 901-907', 1001-1007' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) _____

APPROVED
Reviewed by: STRADER
10/14/2022
10-11-2022

API 47- 051 - 02160 Farm name TH Exploration III, LLC Well number Whistlepig N-4HM

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	17 1/2"	13 3/8"	1,076'	NEW	48#	N/A	Y
Coal	17 1/2"	13 3/8"	1,076'	NEW	48#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,849'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	16,140'	NEW	20#	N/A	Y
Tubing		2 3/8"		NEW	4.7#	N/A	Y
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	547	15.6	1.18	646	0	8
Surface	A	1120	15.6	1.199	1342.88	0	8
Coal	A	1120	15.6	1.199	1342.88	0	8
Intermediate 1	A	840	15	1.378	1157.52	0	8
Intermediate 2							
Intermediate 3							
Production	A	3445	14.5	1.3	4478.5	0	8
Tubing							

Drillers TD (ft) 16,169' Loggers TD (ft) n/a

Deepest formation penetrated Marcellus Plug back to (ft) n/a

Plug back procedure n/a

Kick off depth (ft) 6,570'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 3 centralizers on surface casing at equal distance.

Intermediate - 1 centralizer every other joint.

Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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WHISTLEPIG N-4HM
STIMULATION INFORMATION PER STAGE

Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	90.00	6989	4728	3375	252480	6,573	0
2	86.00	6817	5694	3876	472040	9,039	0
3	90.00	7008	4665	4273	477080	9,550	0
4	89.00	7044	4968	4448	477360	10,471	0
5	90.00	6960	4803	4220	469780	9,481	0
6	88.00	6683	4990	4365	474320	9,595	0
7	88.00	6615	4592	4007	476220	9,546	0
8	90.00	6683	4457	4494	477160	9,636	0
9	90.00	6695	4861	4273	481440	9,678	0
10	89.00	6838	5005	3953	461720	9,532	0
11	88.00	6781	4657	4123	492960	9,785	0
12	88.00	6566	4543	3891	476360	9,742	0
13	89.00	6835	4667	3895	475400	9,588	0
14	88.00	6552	5219	3982	476940	9,585	0
15	89.00	6734	4758	4242	475980	9,543	0
16	89.00	6734	4896	4461	479960	9,564	0
17	88.00	6740	4869	3907	475840	9,576	0
18	88.00	6593	4713	3709	483700	9,591	0
19	88.00	6425	4899	4680	477760	9,584	0
20	90.00	6586	4797	3811	472800	9,513	0
21	89.00	6409	5055	3832	475400	9,670	0
22	89.00	6507	5010	4184	476120	9,554	0
23	88.00	6715	4640	4125	475120	10,449	0
24	90.00	6792	5130	3963	473200	9,474	0
25	88.00	6725	4844	4948	489060	11,840	0
26	90.00	6520	4673	4259	460200	10,042	0
27	88.00	6411	4822	4787	412400	8,150	0
28	90.00	6684	4983	4325	474200	9,504	0
29	90.00	6562	5029	4401	473260	9,374	0
30	88.00	6643	5550	5080	476760	10,440	0
31	91.00	6746	4965	5024	480280	9,485	0
32	91.00	6715	4873	4448	475500	9,360	0

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Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	88.00	6377	5023	4803	475660	9,474	0
34	90.00	6681	4969	3910	475020	9,460	0
35	90.00	6502	4861	4691	472120	9,364	0
36	88.00	6405	5222	4318	478900	9,533	0
37	90.00	6584	4861	4374	464060	9,289	0
38	90.00	6577	5124	5046	466020	9,347	0
39	89.00	6506	5273	5160	478400	9,365	0
40	90.00	6518	5132	4796	470350	9,413	0
41	86.00	6441	5033	4361	388880	8,383	0
42	90.00	6467	5096	4169	481320	9,426	0
43	89.00	6292	4911	4707	475320	9,504	0
44	88.00	6417	5465	4316	483040	9,441	0
45	90.00	6554	5122	4749	483000	9,440	0
46	91.00	6428	5552	4162	469800	9,311	0
47	91.00	6335	5806	4186	476380	9,278	0
48	90.00	6305	5603	4126	475820	9,216	0
49	89.00	6198	5509	4622	477220	9,490	0
50	90.00	6393	5077	4380	476620	9,399	0

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**Whistlepig N-4HM
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	10/24/2021	15,968	16,012	48	Marcellus
2	10/25/2021	15,768	15,914	48	Marcellus
3	10/26/2021	15,593	15,740	48	Marcellus
4	10/26/2021	15,419	15,565	48	Marcellus
5	10/26/2021	15,244	15,391	48	Marcellus
6	10/27/2021	15,070	15,216	48	Marcellus
7	10/27/2021	14,895	15,041	48	Marcellus
8	10/27/2021	14,720	14,867	48	Marcellus
9	10/28/2021	14,546	14,692	48	Marcellus
10	10/28/2021	14,371	14,518	48	Marcellus
11	10/28/2021	14,197	14,343	48	Marcellus
12	10/29/2021	14,022	14,168	48	Marcellus
13	10/29/2021	13,847	13,994	48	Marcellus
14	10/29/2021	13,673	13,819	48	Marcellus
15	10/30/2021	13,498	13,645	48	Marcellus
16	10/30/2021	13,324	13,470	48	Marcellus
17	10/31/2021	13,149	13,295	48	Marcellus
18	10/31/2021	12,974	13,121	48	Marcellus
19	11/1/2021	12,800	12,946	48	Marcellus
20	11/1/2021	12,625	12,772	48	Marcellus
21	11/1/2021	12,451	12,597	48	Marcellus
22	11/1/2021	12,276	12,422	48	Marcellus
23	11/2/2021	12,101	12,248	48	Marcellus
24	11/2/2021	11,927	12,073	48	Marcellus
25	11/2/2021	11,752	11,899	48	Marcellus
26	11/3/2021	11,578	11,724	48	Marcellus
27	11/3/2021	11,403	11,549	48	Marcellus
28	11/4/2021	11,228	11,375	48	Marcellus
29	11/4/2021	11,054	11,200	48	Marcellus
30	11/4/2021	10,879	11,026	48	Marcellus
31	11/5/2021	10,705	10,851	48	Marcellus
32	11/5/2021	10,530	10,676	48	Marcellus
33	11/5/2021	10,355	10,502	48	Marcellus
34	11/6/2021	10,181	10,327	48	Marcellus
35	11/6/2021	10,006	10,153	48	Marcellus
36	11/6/2021	9,832	9,978	48	Marcellus
37	11/7/2021	9,657	9,803	48	Marcellus
38	11/7/2021	9,482	9,629	48	Marcellus
39	11/7/2021	9,308	9,454	48	Marcellus
40	11/8/2021	9,133	9,280	48	Marcellus
41	11/8/2021	8,959	9,105	48	Marcellus

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	11/9/2021	8,784	8,930	48	Marcellus
43	11/9/2021	8,609	8,756	48	Marcellus
44	11/10/2021	8,435	8,581	48	Marcellus
45	11/10/2021	8,260	8,407	48	Marcellus
46	11/11/2021	8,086	8,232	48	Marcellus
47	11/11/2021	7,911	8,057	48	Marcellus
48	11/12/2021	7,736	7,883	48	Marcellus
49	11/12/2021	7,562	7,708	48	Marcellus
50	11/13/2021	7,387	7,534	48	Marcellus

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Whistlepig N-4HM

Lithology Information

LITHOLOGY/FORMATION	TOP DEPTH IN FT/ Name TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID
Maxton	2029	2122	2033	2128	Sandstone
Big Lime	2122	2191	2128	2200	Limestone
Big Injun	2191	2476	2200	2500	Sandstone
Weir	2476	2668	2500	2704	Sandstone
Berea	2668	3010	2704	3076	Sandstone
Gordon	3010	3065	3076	3137	Sandstone
Fifty Foot	3065	3617	3137	3745	Sandstone
Speechley	3617	5012	3745	5277	Sandstone
Benson	5012	5377	5277	5679	Sandstone
Alexander	5377	5961	5679	6322	Siltstone
Rhinestreet	5961	6401	6322	6841	Black Shale
Middlesex	6401	6481	6841	6977	Black Shale
Geneseo/Burkett	6481	6509	6977	7037	Black Shale
Tully	6509	6533	7037	7097	Limestone
Hamilton	6533	6564	7097	7194	Gray Shale
Marcellus	6564	-	7194	-	Black Shale

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/24/2021
Job End Date:	11/13/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02160-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Whistlepig N-4HM
Latitude:	39.77530063
Longitude:	-80.79294605
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,565
Total Base Water Volume (gal):	19,935,174
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.29556	None
Sand (40/70 White Proppant)	Tug Hill Operating	Proppant	Silica Substrate	14808-60-7	100.00000	9.10397	None
Sand (100 Mesh Proppant)	Tug Hill Operating	Proppant	Silica Substrate	14808-60-7	100.00000	3.04301	None
Sand (30/50 White Proppant)	Tug Hill Operating	Proppant	Silica Substrate	14808-60-7	100.00000	1.20666	None
Hydrochloric Acid (7.5%)	NR	Acidizing	Water	7732-18-5	85.00000	0.20282	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.08829	None
StimStream FR 9800	Chemstream	Friction Reducer	Butene, homopolymer	9003-29-6	25.00000	0.01622	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01622	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00195	None

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MC MX 9-4743	Multi-Chem	Biocide					
			Sodium Nitrate	7631-99-4	60.00000	0.02236	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00507	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	None
ProHib 100	CNR	Acid Inhibitor					
			2-Butoxyethanol	111-76-2	60.00000	0.00044	None
			Proprietary material	Proprietary	30.00000	0.00022	None
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00015	None
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00007	None
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00007	None
ProFE 105	CNR	Iron Control					
			Citric Acid	77-92-9	20.00000	0.00017	None
			Acetic Acid	64-19-7	5.00000	0.00004	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.20282	
			Butene, homopolymer	9003-29-6	25.00000	0.01622	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00195	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	
			Proprietary material	Proprietary	30.00000	0.00022	
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00015	
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00007	
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00007	
			Acetic Acid	64-19-7	5.00000	0.00004	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

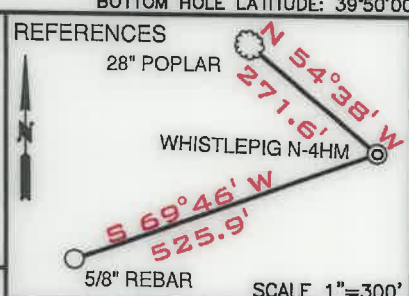
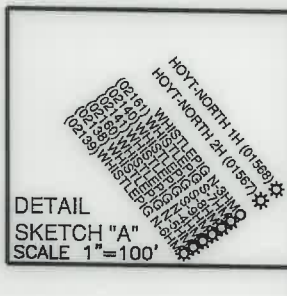
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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WHISTLEPIG LEASE WELL N-4HM 975.896± ACRES

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.

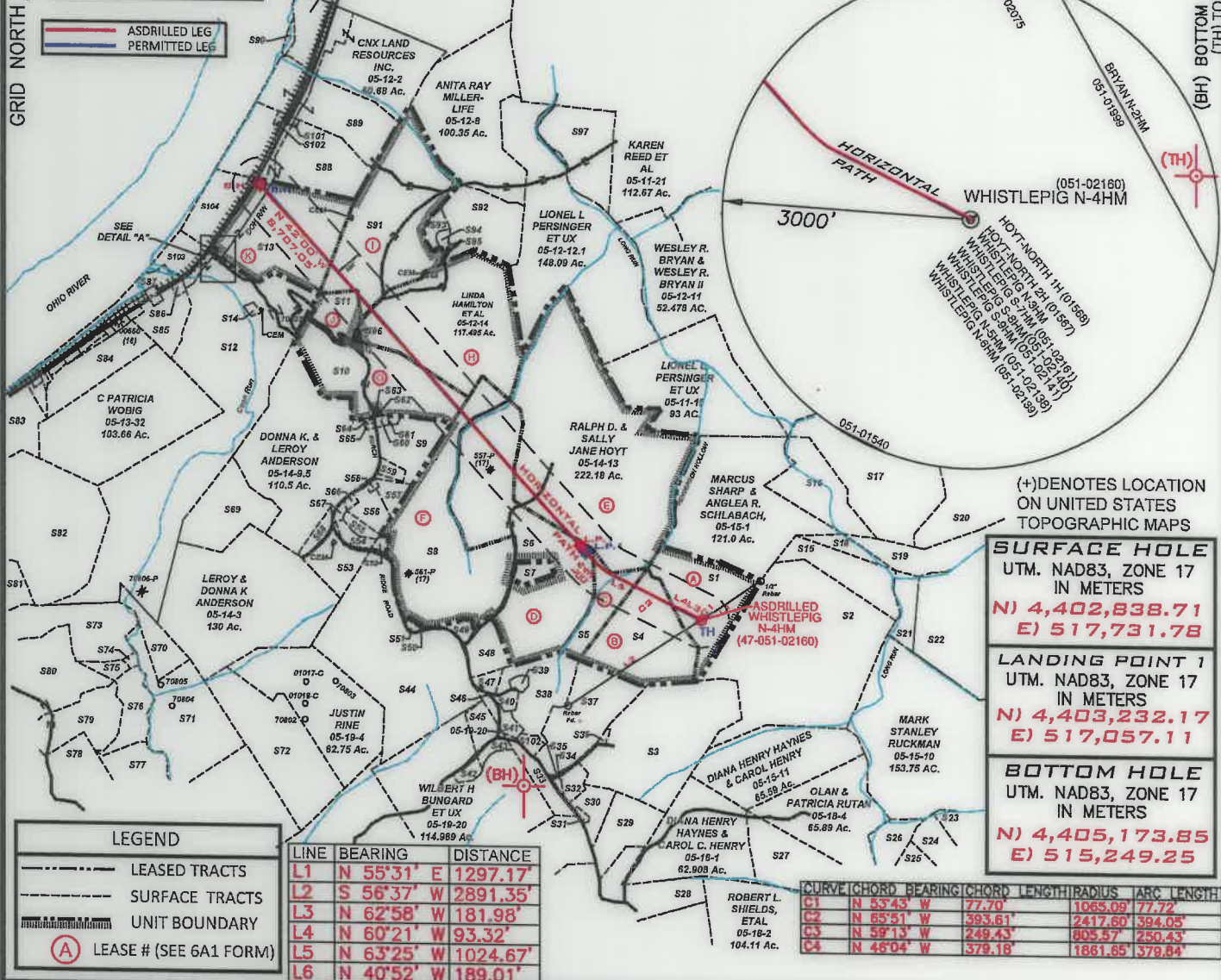


TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°50'00"

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

(TH) 5,985'
(BH) 13,479'

ASDRILLED LEG
PERMITTED LEG



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,838.71
E) 517,731.78

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,232.17
E) 517,057.11

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,405,173.85
E) 515,249.25

LEGEND

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

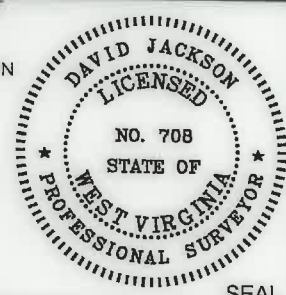
FILE NUMBER _____
DRAWING NUMBER: **WHISTLEPIG N-4HM_REV 1**
SCALE: 1" = 3000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: **SUBMETER MAPPING**
GRADE GPS

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



David L. Jackson

JACKSON SURVEYING INC.
P.O. Box 1460
Clarksburg, WV 26302
304-823-5851



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

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

LOCATION ELEVATION **1368.5'** WATERSHED (HUC 10) **FISH CREEK**

DISTRICT **FRANKLIN** COUNTY **MARSHALL**

QUADRANGLE **POWATAN POINT 7.5'** LEASE NUMBER _____ SEE WW-6A1 Form

DATE: **OCTOBER 03, 2022**
OPERATORS WELL NO. **WHISTLEPIG N-4HM**
API WELL NO. **47-051-02160**
STATE COUNTY PERMIT

SURFACE OWNER **ROBERT L. & REBECCA SHIELDS AND DONALD SHIELDS** ACREAGE **40014/2022**

OIL & GAS ROYALTY OWNER **ROBERT L. & REBECCA SHIELDS AND DONALD SHIELDS** LEASE ACREAGE **49.0**

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) **ASDRILLED**

TARGET FORMATION **MARCELLUS** ESTIMATED DEPTH **TVD: 6,535' TMD: 16,169'**

WELL OPERATOR **TUG HILL OPERATING, LLC** DESIGNATED AGENT **DARREN BROWN, CT CORP**
ADDRESS **1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107** ADDRESS **5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561**

**WHISTLEPIG LEASE
WELL N-4HM
975.896± ACRES**

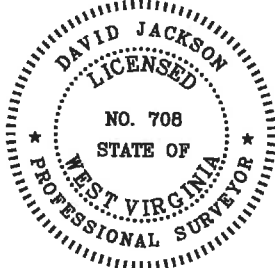
SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,838.77
E) 517,731.86

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,198.57
E) 517,085.69

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,405,171.14
E) 515,254.68

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1 (A)	05-15-15	Robert L. Shields & Rebecca Shields and Donald Shields	49.0
S2	05-15-12	John David Petrock, et ux	150.23
S3	05-19-13	Rona Lee Rice & Charles Franklin McCordle	94.925
S4 (B)	05-14-15	Robert L. Shields, et al	53.00
S5 (C)	05-14-14	Robert L. Shields, et al	29.05
S6 (D)	05-14-12	Dale R. Gallaher, et al	135.100
S7	05-14-12.1	Henry Wilson Plunkert, Jr.	5.00
S8 (F)	05-14-10	Wanda P. Rine (Life)	107.372
S9	05-14-9.2	Maria T. Flores	25.00
S10 (G)	05-12-21	Edward L. Gibson (Life)	73.436
S11 (J)	05-12-21.1	Robert W., Jr. & Wendy L. Riggensch	14.222
S12	05-12-23	CNX Land Resources, Inc.	236.10
S13 (K)	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	2.763
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	Cassandra 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 & Victoria 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 (I)	05-12-07	Robert Wm. Riggensch, 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



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Environmental Protection

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

10/14/2022



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Whistlepig N-4HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02160

WELL PLAT
PAGE 2 OF 2
DATE: 12/03/2022