

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

API : 47-051-01478 County: MARSHALL District: CAMERON
 Quad: CAMERON Pad Name: WOODRUFF Field/Pool Name: MARCELLUS SHALE
 Farm name: WOODRUFF **WELL NAME : WOODRUFF 1H**
 Operator (as registered with the OOG) TRANS ENERGY, INC.
 Address: P. O. BOX 393 City: ST. MARYS State: WV Zip: 26170

As Drilled Location NAD 83/UTM *** SEE ATTACHED AS-BUILT WELL LOCATION MAP ***

Top hole	Northing	<u>4411934.6</u>	Easting	<u>540490.3</u>
Landing Point of curve	Northing	<u>4412200.2</u>	Easting	<u>541030.5</u>
Bottom hole	Northing	<u>4414392.8</u>	Easting	<u>540175.8</u>

Elevation (ft): 1,484' Type of Well: NEW Type of Report: FINAL

Permit Type: HORIZONTAL 6A Depth Type: SHALLOW

Type of Operation: DRILL

Well Type: GAS

Type of Completion: SINGLE Fluids Produced: BRINE, GAS and NGL

Drilled With: ROTARY

Drilling Media: MUD Intermediate hole: MUD

Production hole: MUD

Mud Type(s) and Additive(s) MUD TYPE - SYNTHETIC BASE DRILLING MUD

ADDITIVES:	Calcium Carbonate	Hydrated Lime	Synvert Synthetic 1-L	Citric Acid	Driscoll Vis
	Calcium Chloride	Cedar Fiber	Bentonite	Sodium Bicarbonate	L-20C
	Synvert LEM	Rubber Crumb	Soda Ash, dense	Glycerine	Bioclear
	Synvert Synthetic WA-L	Cottonseed Hulls	Lignite	Desco	
	Barite	Synvert Synthetic 11-L	Aluminum Sterate	Caustic Soda Beads	

Date permit issued: 8/16/2011 Date drilling commenced: 8/14/2013 Date drilling ceased: 3/9/2014

Date completion activities began: 4/14/2014 Date completion activities ceased: 4/23/2014

Verbal plugging: N/A 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.

Fresh water depth (s) ft: 50' Open mine(s) (Y/N) depths: N

Salt water depth(s) ft: 1300' Void(s) encountered (Y/N) depths: N

Coal Depth(s) ft: 90' Cavern(s) encountered (Y/N) depths: N

Is coal being mined in area (Y/N) N

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Reviewed by:
EB
2-22-16

02/26/2016

API: 47-051-01478 WELL NAME : WOODRUFF 1H

CASING STINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) Provide details below.
Conductor	<u>26"</u>	<u>20"</u>	<u>100'</u>	<u>New</u>	<u>J-55 / 94</u>	-	-
Surface	<u>17.5</u>	<u>13 3/8"</u>	<u>1038'</u>	<u>New</u>	<u>J-55 / 54.5</u>	-	<u>Yes</u>
Coal	-	-	-	-	-	-	-
Intermediate 1	<u>12.25</u>	<u>9 5/8"</u>	<u>3048'</u>	<u>New</u>	<u>N-80 / 40</u>	-	<u>Yes</u>
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	<u>8 3/4"</u>	<u>8 1/2"</u>	<u>12233'</u>	<u>New</u>	<u>P-110 / 20</u>	-	<u>Yes</u>
Tubing	-	-	-	-	-	-	-
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							
Surface	<u>Type 1</u>	<u>840</u>	<u>15.6</u>	<u>1.19</u>	<u>999.6</u>	<u>SURFACE</u>	<u>8</u>
Coal	-	-	-	-	-	-	-
Intermediate 1	<u>CLASS A</u>	<u>987</u>	<u>15.6</u>	<u>1.2</u>	<u>1184.4</u>	<u>SURFACE</u>	<u>8</u>
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	<u>H / H</u>	<u>1576 / 1195</u>	<u>14.5 / 15.6</u>	<u>1.18 / 1.18</u>	<u>1860 / 1410</u>	<u>SURFACE</u>	<u>8</u>
Tubing	-	-	-	-	-	-	-

Drillers TD (ft): 12,250'

Loggers TD (ft): 12,252'

Deepest formation penetrated: MARCELLUS SHALE

Plug back to (ft): _____

Plug back procedure: N/A

Kick off depth (ft) 6,888'

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

Well cored? NO

Were cuttings collected? NO

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

FRESS WATER STRING - 1 CENTRALIZER EVERY 160'

INTERMEDIATE STRING - 1 CENTRALIZER EVERY 100' FROM 3,300' TO 900'

PRODUCTION STRING - 1 CENTRALIZER EVERY 80' FROM TD TO ABOVE ROP (7000')

WAS WELL COMPLETED AS SHOT HOLE? YES

DETAILS: _____

WAS WELL COMPLETED OPEN HOLE? NO

DETAILS: _____

WERE TRACERS USED? NO

TYPE OF TRACER(S) USED: N/A

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***** SEE ATTACHED SURVEY REPORTS - 7 PAGES *****

PERFORATION RECORD

Stage No.	Perferated from MD ft.	Perferated to MD ft.	Number of Perferations	Formations
1	12,187	12,040	41	MARCELLUS SHALE
2	11,966	11,835	41	MARCELLUS SHALE
3	11,768	11,619	41	MARCELLUS SHALE
4	11,541	11,380	41	MARCELLUS SHALE
5	11,304	11,154	41	MARCELLUS SHALE
6	11,078	10,934	41	MARCELLUS SHALE
7	10,861	10,700	41	MARCELLUS SHALE
8	10,627	10,476	41	MARCELLUS SHALE
9	10,395	10,260	41	MARCELLUS SHALE
10	10,186	10,032	41	MARCELLUS SHALE
11	9,956	9,808	41	MARCELLUS SHALE
12	9,739	9,591	41	MARCELLUS SHALE
13	9,513	9,360	41	MARCELLUS SHALE
14	9,283	9,122	41	MARCELLUS SHALE
15	9,041	8,882	41	MARCELLUS SHALE
16	8,795	8,617	41	MARCELLUS SHALE
17	8,536	8,374	41	MARCELLUS SHALE
18	8283	8122	40	MARCELLUS SHALE
19	8057	7813	34	MARCELLUS SHALE

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Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Other Units
1	4/14/2014	57.9	8,060	6,371	4,532	275,089	9313.5	
2	4/15/2014	65.4	7,839	5,999	5,073	335,340	8692.9	
3	4/16/2014	63.1	7,602	6,090	5,198	363,805	8961.9	
4	4/16/2014	58.9	7,676	6,188	5,224	268,445	8355.3	
5	4/17/2014	64.5	7,779	5,934	5,225	324,534	8422.2	
6	4/18/2014	68.4	7,854	5,925	5,197	324,437	8627.7	
7	4/18/2014	57.3	8,280	6,023	N/A	247,845	7935.9	
8	4/19/2014	65.2	8,040	5,918	5,139	306,507	7724.0	
9	4/19/2014	67.7	8,081	5,800	N/A	305,235	8217.6	
10	4/20/2014	67.9	7,486	5,594	5,188	309,348	8258.0	
11	4/20/2014	66.2	8,065	5,462	5,619	263,335	8621.6	
12	4/20/2014	66.4	7,580	5,657	5,238	305,036	8202.0	
13	4/21/2014	68.5	8,013	5,760	5,266	310,500	7925.1	
14	4/21/2014	68.5	7,647	5,660	5,296	309,808	8334.7	
15	4/22/2014	68.5	7,208	5,973	5,128	313,170	7541.7	
16	4/22/2014	68.3	7,257	5,515	5,080	309,657	88217.0	
17	4/23/2014	70.3	7,392	5,866	5,115	310,253	8164.9	
18	4/23/2014	71.8	7,544	6,210	5,159	321,466	8099.1	
19	4/23/2014	69.8	7,584	5,525	5,033	234,773	6315.4	

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PRODUCING FORMATION(S)

DEPTHS

MARCELLUS SHALE

7132'

TVD

12252'

MD

GAS TEST: **N/A**

OIL TEST: **N/A**

PRESSURE: Surface: _____ psi Bottom hole: _____ psi DURATION OF TEST: _____ hrs

OPEN FLOW

GAS: _____ mcfpd	OIL: _____ bpd	NGL: _____ bpd	WATER: _____ bpd	GAS MEASURED BY: ESTIMATED
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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 (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
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Sand	1,630	1,688			
Maxton	2,040	2,062			
Big Lime	2,085	2,151			
Big Injun	2,150	2,235			
Berea	2,364	2,384			
30 Ft	2,684	2,732			
Gordon	2,796	2,848			
4th	2,845	2,885			
5th	2,960	2,980			
Riley	4,484	4,502			
Benson	4,866	4,890			
Alexander	4,980	5,008			
Middlesex	6,898	6,998			
Burkett	7,006	7,028			
Tully Lime	7,028	7,163			
Marcellus	7,163	7,213			
Onondaga	7,213				

Please insert additional pages as applicable.

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Drilling Contractor: **NOMAC DRILLING**
Address: 3400 SOUTH RADIO ROAD City: EL RENO State: OK Zip: 73036

Logging Contractor: **BAKER HUGHES**
Address: 17015 ALDINE WESTFIELD ROAD City: WOOSTER State: OH Zip: 44691

Cementing Company: **BAKER HUGHES**
Address: 17015 ALDINE WESTFIELD ROAD City: WOOSTER State: OH Zip: 44691

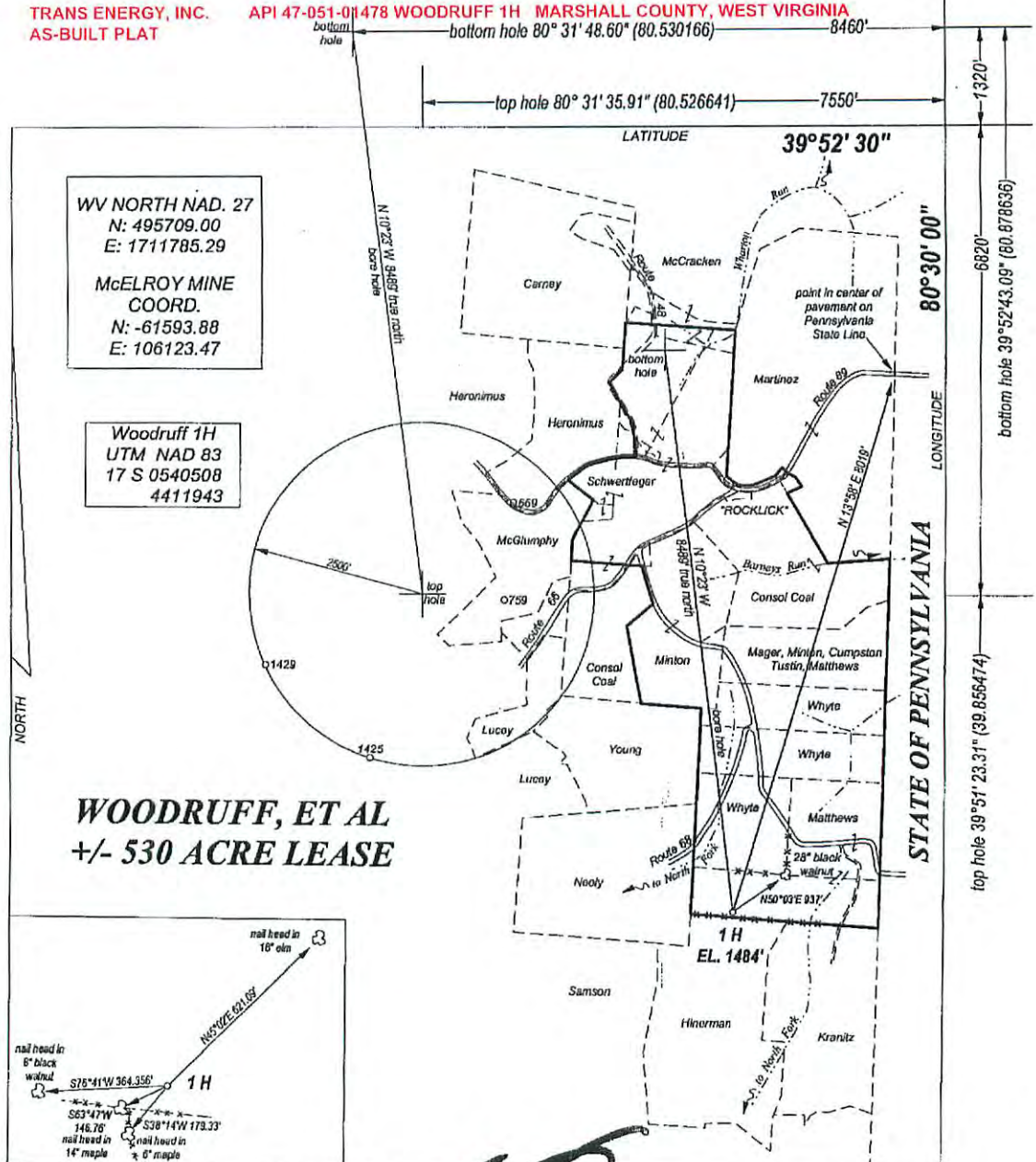
Stimulating Company: **GO FRAC**
Address: 7000 CALMONT AVENUE, SUITE 310 City: FORT WORTH State: TX Zip: 76116

Completed by: Leslie A. Gearhart, Vice President of Operations Telephone: 304/684-7053

Signature:  DATE: 3-14-15

**** SEE ATTACHMENT ENTITLED "HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE" ****

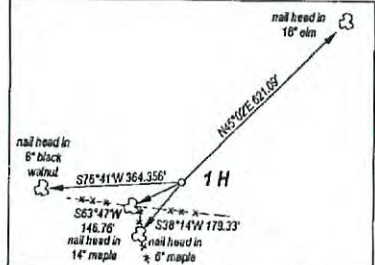
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 COORD.
 N: -61593.88
 E: 106123.47

Woodruff 1H
 UTM NAD 83
 17 S 0540508
 4411943

**WOODRUFF, ET AL
 +/- 530 ACRE LEASE**



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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 DEPARTMENT OF ENERGY.
 (SIGNATURE)
 PROFESSIONAL SURVEYOR: 551



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS

DATE MAY 24TH, 2011
 OPERATORS WELL NO. WOODRUFF 1H

API 47 - 051 - 01478
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1484' WATER SHED NORTH FORK OF GRAVE CREEK
 DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE CAMERON

SURFACE OWNER VIOLETTA MATTHEWS ACREAGE 84.318
 OIL & GAS ROYALTY WOODRUFF, ET AL LEASE AC +/- 530

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL
 FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 7200'

WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT LOREN BAGLEY
 ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393
ST. MARYS, WV 26170 ST. MARYS, WV 26170

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FORM WV-6

TRANS ENERGY, INC. - HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

Fracture Start Date/Time:	4/15/14 22:41
Fracture End Date/Time:	4/23/14 15:37
State:	West Virginia
County:	Marion
API Number:	47-051-01478
Operator Number:	494481575
Well Name:	Woodruff 1H
Federal Well:	No
Longitude:	-80.5266
Latitude:	39.8564
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	7,133'
Total Clean Fluid Volume* (gal):	6,527,430

Additive	Specific Gravity	Additive Quantity	Mass (lbs)	
Freshwater	1.00	6,527,430	54,471,403	gal
100 Mesh	2.65	2,255,165	2,255,165	lb
40/70 White Sand	2.65	2,195,716	2,195,716	lb
20/40 White Sand	2.65	1,287,732	1,287,732	lb
Plexhib 256	0.86	56	402	gal
HCl Acid 10-15%	1.07	18,500	165,189	gal
Ferriplex 66	1.15	56	537	gal
Greenflush	0.81	311	2,102	gal
Sodium Persulfate	2.60	687	687	lb
Beta M-4.0	1.01	159	1,337	gal
Plexbreak 145	0.95	19	151	gal
Plexslick 953	1.06	3,648	32,269	gal
SOS 1545	1.06	687	6,077	gal
				gal
				lb
				gal
				gal
			Total Slurry Mass (Lbs)	
			60,418,768	

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Freshwater	Republic Energy	Frac Base	Water	7732-18-5	100.00%	54,471,403	90.15643%	
100 Mesh	US Silica	Proppant	Sand	14808-60-7	100.00%	2,255,165	3.73256%	
40/70 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00%	2,195,716	3.63416%	
20/40 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00%	1,287,732	2.13134%	
HCl Acid 10-15%	GoFrac	Acid	Hydrochloric Acid	7647-01-0	15.00%	24,778	0.04101%	
Ferriplex 66	Chemplex	Iron Control	Acetic Acid	64-19-7	50.00%	269	0.00044%	
			Citric Acid	77-92-9	30.00%	161	0.00027%	
			Water	7732-18-5	35.00%	188	0.00031%	
Greenflush	Chemplex	Cleaner	Alcohol Ethoxylate Surfactants	Proprietary	10.00%	210	0.00035%	
Plexbreak 145	Chemplex	Non-Emulsifier	Cocamide Diethanolamine Salt	68603-42-9	10.00%	15	0.00002%	
			Diethanolamine	111-42-2	5.00%	8	0.00001%	
			Ethylene Glycol Monobutyl Ether	111-76-2	15.00%	23	0.00004%	
			Methyl Alcohol	67-56-1	15.00%	23	0.00004%	
			Water	7732-18-5	66.00%	99	0.00016%	
Plexhib 256	Chemplex	Corrosion Inhibitor	Alcohol Ethoxylate Surfactants	Proprietary	30.00%	121	0.00020%	
			Methyl Alcohol	67-56-1	70.00%	281	0.00047%	
			n-olefins	Proprietary	10.00%	40	0.00007%	
			Propargyl Alcohol	107-19-7	8.00%	32	0.00005%	
			Thiourea-formaldehyde copolymer	68527-49-1	30.00%	121	0.00020%	
Sodium Persulfate	Chemplex	Active Breaker	Sodium Persulfate	7775-27-1	100.00%	687	0.00114%	
Plexslick 953	Chemplex	Friction Reducer	Alcohol Ethoxylate Surfactants	Proprietary	8.00%	2,582	0.00427%	
			Hydrotreated Petroleum Distillate	64742-47-8	30.00%	9,681	0.01602%	
			Polyacrylamide-co-acrylic acid	Proprietary	32.00%	10,326	0.01709%	
			Water	7732-18-5	35.00%	11,294	0.01869%	
Beta M-4.0	PP	Guar Gel	Guar Gum	9000-30-0	50.00%	669	0.00111%	
			Petroleum Distillate	64742-47-8	55.00%	736	0.00122%	
			Clay	Proprietary	5.00%	67	0.00011%	
SOS 1545	Ultrablend	Guar Gel	Hydrocarbons	64741-85-1	70.00%	4,254	0.00704%	

*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 > 100%

All component information listed was obtained from the supplier Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

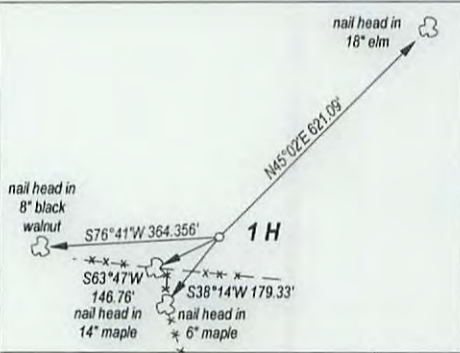
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I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) _____
 PROFESSIONAL SURVEYOR: 551



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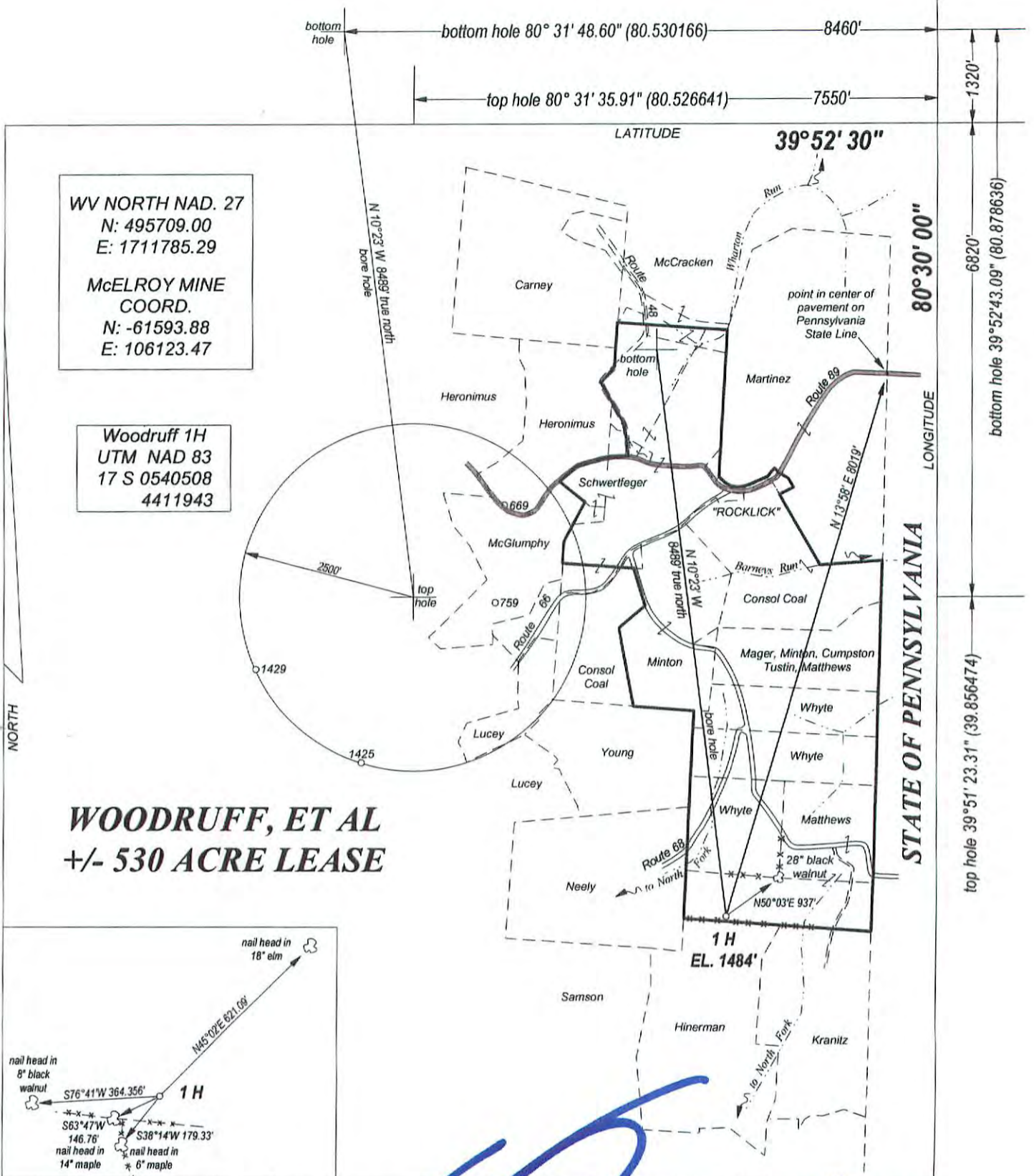
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 ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393
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02/26/2016

FORM WW - 6

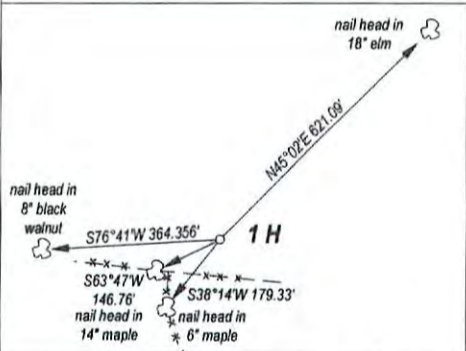
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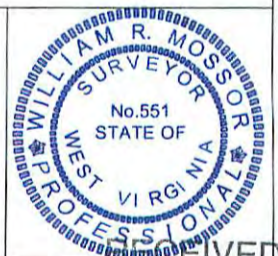
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UTM NAD 83
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4411943



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FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
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TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 7200'

WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT LOREN BAGLEY
ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393
ST. MARYS, WV 26170 ST. MARYS, WV 26170

FORM WW - 6

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