

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

API 47 - 051 - 02057¹ County Marshall District Franklin
Quad New Martinsville 7.5' Pad Name Accettolo Field/Pool Name _____
Farm name Louis J. & Patricia Accettolo, et al Well Number Evad 5HM
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 4,399,403.86 Easting 517,717.57
Landing Point of Curve Northing 4,399,438.38 Easting 518,450.62
Bottom Hole Northing 4,397,283.06 Easting 519,695.98

Elevation (ft) 1290.0' 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 8/30/2018 Date drilling commenced 5/5/2019 Date drilling ceased 5/21/2019
Date completion activities began 6/3/2019 Date completion activities ceased 1/13/2020
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 70' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1595' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 789-795', 889-895' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
Jane Trechola
7/27/2020

API 47-051 - 02057 ¹ Farm name Louis J. & Patricia Accetolo, et al Well number Evad 5HM

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"	1,013'	NEW	54.5#	N/A	Y
Coal	17 1/2"	13 3/8"	1,013'	NEW	54.5#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,830'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	15,612'	NEW	20#	N/A	Y
Tubing		2 3/8"	7,086'	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		15.6	1.19		0	8
Surface	A	1060	15.6	1.19	1268	0	8
Coal	A	1060	15.6	1.19	1268	0	8
Intermediate 1	A	986	15.6	1.19	1169	0	8
Intermediate 2							
Intermediate 3							
Production	A	3682	14.5	1.17	4324	0	8
Tubing							

Drillers TD (ft) 15,641' Loggers TD (ft) n/a
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

Kick off depth (ft) 6,476'

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.

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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 _____

API 47- 051 - 0205¹

Farm name Louis J. & Patricia Accettolo, et al Well number Evad 5HM

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	*see attached				

Please insert additional pages as applicable.

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)	Amount of Nitrogen/other (units)
	attached							

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Please insert additional pages as applicable.

API 47- 051 - 0205*X* Farm name Louis J. & Patricia Accetolo, et al Well number Evad 5HM

PRODUCING FORMATION(S)	DEPTH(S)	
Marcellus	6577' - 6604' TVD	7406' - 15641' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1132 psi Bottom Hole psi DURATION OF TEST 24 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
0 mcfpd 0 bpd 0 bpd 600 bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
attached	0		0		

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Please insert additional pages as applicable.

Drilling Contractor Precision
Address 10350 Richmond Avenue, Suite 700 City Houston State TX Zip 77042

Logging Company n/a
Address City State Zip

Cementing Company BJ Services
Address 4000 Town Center Boulevard City Canonsburg State PA Zip 15317

Stimulating Company Halliburton Energy Services, Inc.
Address 121 Champion Way, Suite 200 City Canonsburg State PA Zip 15317

Please insert additional pages as applicable.

Completed by Amy L. Miller Telephone 304-376-0111
Signature *Amy L Miller* Title Permitting Specialist Date 7/15/2020

**EVAD 5HM
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	8/10/2019	15214	15366	48	Marcellus
2	8/15/2019	15040	15192	48	Marcellus
3	8/15/2019	14866	15018	48	Marcellus
4	8/15/2019	14692	14844	48	Marcellus
5	8/16/2019	14518	14670	48	Marcellus
6	8/16/2019	14344	14496	48	Marcellus
7	8/16/2019	14170	14322	48	Marcellus
8	8/16/2019	13996	14148	48	Marcellus
9	8/17/2019	13822	13974	48	Marcellus
10	8/17/2019	13648	13800	48	Marcellus
11	8/17/2019	13474	13626	48	Marcellus
12	8/17/2019	13300	13452	48	Marcellus
13	8/18/2019	13126	13278	48	Marcellus
14	8/18/2019	12952	13104	48	Marcellus
15	8/18/2019	12778	12930	48	Marcellus
16	8/18/2019	12604	12756	48	Marcellus
17	8/19/2019	12430	12582	48	Marcellus
18	8/19/2019	12256	12408	48	Marcellus
19	8/19/2019	12082	12234	48	Marcellus
20	8/20/2019	11908	12060	48	Marcellus
21	8/20/2019	11734	11886	48	Marcellus
22	8/20/2019	11560	11712	48	Marcellus
23	8/21/2019	11386	11538	48	Marcellus
24	9/8/2019	11212	11364	48	Marcellus
25	9/9/2019	11038	11190	48	Marcellus
26	9/10/2019	10864	11016	48	Marcellus
27	9/11/2019	10690	10842	48	Marcellus
28	9/12/2019	10516	10668	48	Marcellus
29	9/12/2019	10342	10494	48	Marcellus
30	9/13/2019	10168	10320	48	Marcellus
31	9/14/2019	9994	10146	48	Marcellus
32	9/15/2019	9820	9972	48	Marcellus
33	9/16/2019	9646	9798	48	Marcellus
34	9/16/2019	9472	9624	48	Marcellus
35	9/17/2019	9298	9450	48	Marcellus
36	9/18/2019	9124	9276	48	Marcellus
37	9/19/2019	8950	9102	48	Marcellus
38	9/20/2019	8776	8928	48	Marcellus
39	9/20/2019	8602	8754	48	Marcellus
40	9/21/2019	8428	8580	48	Marcellus
41	9/22/2019	8254	8406	48	Marcellus

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	9/23/2019	8080	8232	48	Marcellus
43	9/24/2019	7906	8058	48	Marcellus
44	9/24/2019	7732	7884	48	Marcellus
45	9/25/2019	7558	7710	48	Marcellus
46	9/26/2019	7384	7536	48	Marcellus

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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	89.3	7503	5949	7269	440070	8445	0
2	83.9	7428	5281	4878	445385	474179	0
3	83.4	7204	5326	4968	441380	8921	0
4	83.9	7384	5344	4666	434560	8890	0
5	87.7	7444	5278	4553	442140	9132	0
6	86.9	7464	5294	4835	435640	8984	0
7	85.3	7147	5211	4684	439990	8661	0
8	87	7172	5159	4884	441970	9034	0
9	88.1	7148	5343	4866	448290	9022	0
10	87.9	7102	5229	4958	441970	8970	0
11	87.1	7299	5279	4661	448120	9087	0
12	88.2	7269	5477	4653	445390	8902	0
13	88.1	7253	5482	4923	444560	9020	0
14	87.6	7231	5343	4877	449940	8987	0
15	86	7414	5239	4291	445520	9039	0
16	88.1	6983	5291	4917	449680	8955	0
17	88.4	7098	5479	4610	444030	8949	0
18	87.5	7367	5672	4208	449730	10264	0
19	88.9	7097	5522	3700	446850	9140	0
20	88.9	6755	5818	4864	442920	8866	0
21	88.5	7352	5621	4964	444900	8844	0
22	89.6	7021	5240	4972	441580	9641	0
23	89.5	6951	55312	4668	442530	8796	0
24	88.1	7496	5543	4554	399940	8320	0
25	86.9	7237	5327	4488	401610	9223	0
26	87.6	7163	5228	4581	399740	9460	0
27	89.6	7299	5143	4174	436950	9110	0
28	89.1	7182	5354	4094	440700	9345	0
29	89.2	7079	5167	4151	430755	9113	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)
30	85.9	7373	4930	4587	400780	9100	0
31	92.1	7255	5094	4431	439560	9933	0
32	92.8	6958	5429	4322	440930	10043	0
33	91.6	7042	5353	4472	319070	10831	0
34	90.5	6953	5588	4272	440010	9696	0
35	91.2	6842	5143	4126	440730	10120	0
36	92	6716	5003	4117	443040	10106	0
37	90.5	6849	5580	4425	442200	10160	0
38	89.5	6574	5260	4581	445180	10187	0
39	91.9	6676	5550	5228	442830	10178	0
40	91	6700	5247	4708	382910	10333	0
41	91.3	6596	5423	4579	442500	10357	0
42	91	7060	5382	4619	274285	11454	0
43	92.7	6616	5409	4474	443540	10919	0
44	91.9	6821	5387	4781	363270	11105	0
45	92.8	6393	5212	4037	443950	9937	0
46	91.6	6655	5260	4376	430265	9909	0

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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
Maxton	1973	2069	1976	2074	Sandstone
Big Lime	2069	2123	2074	2129	Limestone
Big Injun	2123	2425	2129	2438	Sandstone
Weir	2425	2609	2438	2626	Sandstone
Berea	2609	2919	2626	2942	Sandstone
Gordon	2919	2979	2942	3003	Sandstone
Fifty Foot	2979	3556	3003	3609	Sandstone
Speechley	3556	4948	3609	5225	Sandstone
Benson	4948	5323	5225	5660	Sandstone
Alexander	5323	5927	5660	6354	Siltstone
Rhinestreet	5927	6363	6354	6906	Black shale
Middlesex	6363	6440	6906	7034	Black shale
Geneseo/Burkett	6440	6465	7034	7081	Black shale
Tully	6465	6500	7081	7151	Limestone
Hamilton	6500	6546	7151	7269	Grey shale
Marcellus	6546	-	7269	-	Black shale

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Well: Evad 05HM (E)
 Site: Accetolo/Evad Pad
 Project: Marshall County, West Virginia
 Design: rev2
 Rig: Precision 528

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	1418.00	0.00	0.00	1418.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 2'/100' build
3	1868.00	5.00	110.00	1867.68	-3.73	10.24	2.00	110.000	9.71	Begin 2'/100' build/turn
4	2092.48	12.00	73.77	2087.49	2.29	70.10	2.00	-56.342	46.12	Begin 12.00' tangent
5	3146.02	12.00	73.77	3118.00	63.51	280.42	0.00	0.000	144.70	Begin 3'/100' build/turn
6	3761.29	30.46	73.77	3689.04	125.51	493.40	3.00	-0.003	244.53	Begin 30.46' tangent
7	6531.40	50.00	73.77	6076.88	518.02	1841.62	0.00	0.000	876.47	Begin 8'/100' build/turn
8	6976.28	50.00	121.91	6422.80	457.51	2102.99	8.00	78.624	1098.92	Begin 10'/100' build/turn
9	7443.35	89.10	150.02	6585.72	143.07	2387.46	10.00	40.337	1522.89	Begin 89.10' lateral
10	15643.28	89.10	150.02	6715.00	-6958.93	6484.25	0.00	0.000	9511.69	PBHL/TD 15643.28 MD/6715.00 TVD

ANNOTATIONS SURVEYS

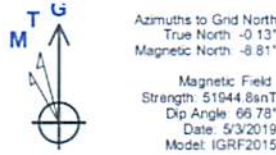
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
15591.00	89.71	150.27	6603.41	-6914.59	6466.07	9466.85	MWD surveys
15641.00	89.71	150.27	6603.66	-6958.01	6490.86	9515.52	Survey @ 15591.00 MD 6603.41 TVD
							Survey projected to 15641.00 MD 6603.66 TVD

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD83 West Virginia - HARN
 Ellipsoid: GRS 1980
 Zone: Zone 17N (84 W to 78 W)

System Datum: Mean Sea Level
 Depth Reference: RKB=1291+18 @ 1309.00ft (Precision 528)

Northing: 14433711.13 Easting: 1698544.71 Latitude: 39.74435282 Longitude: -80.79320681

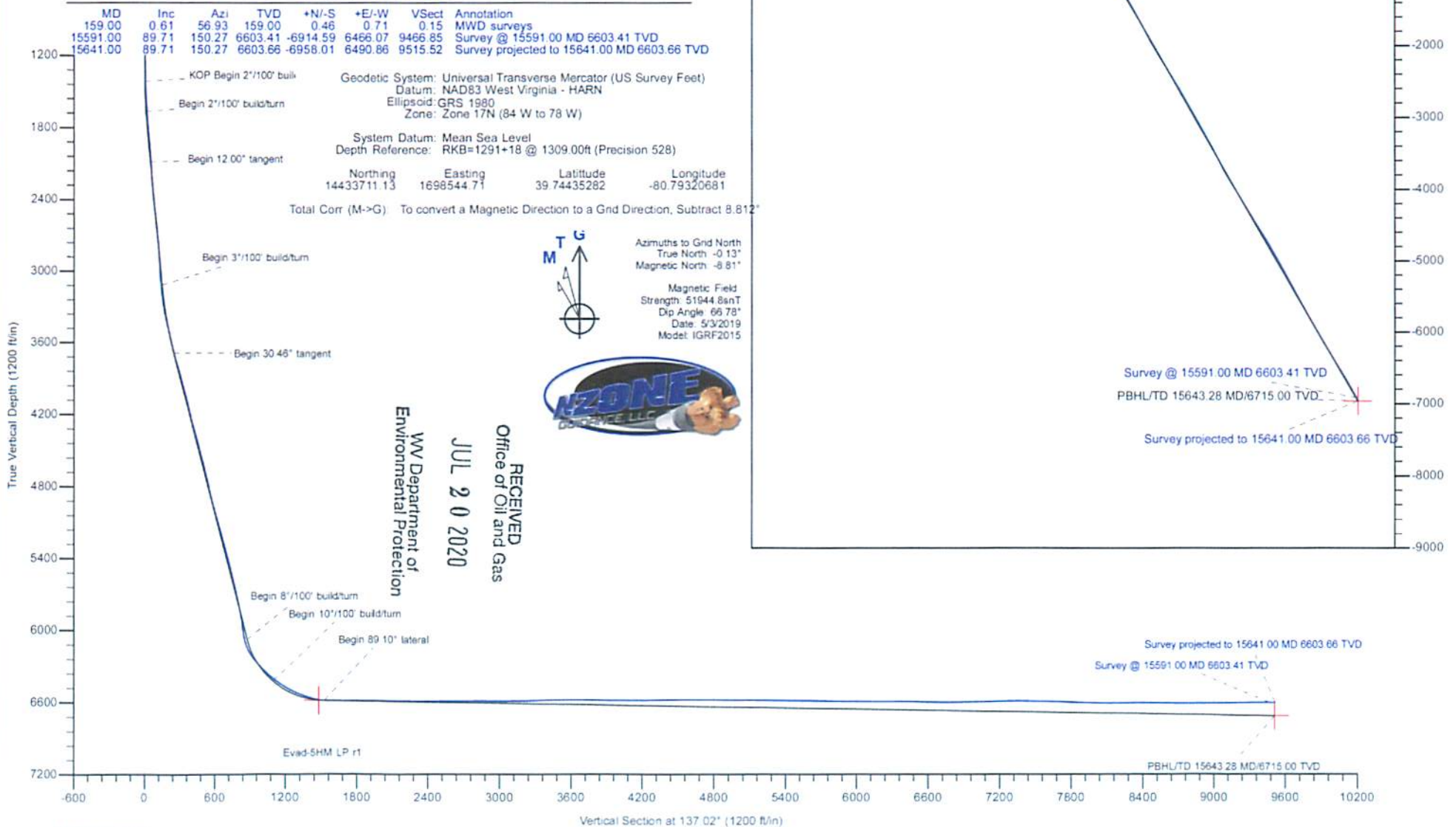
Total Corr (M->G): To convert a Magnetic Direction to a Grd Direction, Subtract 8.812°



Azimuths to Grid North
 True North -0.13°
 Magnetic North -8.81°
 Magnetic Field
 Strength: 51944.8nT
 Dip Angle: 66.78°
 Date: 5/3/2019
 Model: IGRF2015



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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/10/2019
Job End Date:	9/25/2019
State:	West Virginia
County:	Marshall
API Number:	47-051-02051-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Evad 5HM
Latitude:	39.74435280
Longitude:	-80.79320680
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,610
Total Base Water Volume (gal):	18,927,721
Total Base Non Water Volume:	0



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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
Produced Mixture	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	88.73685	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.33782	

MC MX 8-4743	MultiChem	Additive					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
FDP-S1296-17	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OilPerm A	Halliburton	Non-ionic Surfactant					
				Listed Below			
LD-2950	MultiChem	Friction Reducer					
				Listed Below			
Sand-Premium White-30/50	Halliburton	Proppant					

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				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	10.89420	
			Hydrochloric acid	7647-01-0	30.00000	0.07404	
			Complex Amine Compound	Proprietary	60.00000	0.04546	
			Sodium nitrate	7631-99-4	60.00000	0.02291	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02273	
			Methanol	67-56-1	100.00000	0.00572	
			Ethoxylated alcohols	Proprietary	5.00000	0.00379	
			Sodium molybdate	10102-40-6	5.00000	0.00191	
			Adipic acid	124-04-9	1.00000	0.00076	
			Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, branched	69011-36-5	1.00000	0.00076	
			Sodium chloride	7647-14-5	5.00000	0.00048	
			Phosphoric Acid Salt	Proprietary	5.00000	0.00044	
			Ethanol	64-17-5	60.00000	0.00025	
			Oxyalkylated nonyl phenolic resin	Proprietary	30.00000	0.00013	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.00013	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00012	
			Modified thiourea polymer	Proprietary	30.00000	0.00012	
			Oxyalkylated phenolic resin	Proprietary	10.00000	0.00004	
			Sodium acetate	127-09-3	0.10000	0.00004	
			Sodium lactate	72-17-3	0.10000	0.00004	
			Yeast extract	8013-01-2	0.10000	0.00004	
			Monopotassium phosphate	7778-77-0	0.10000	0.00004	

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			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)- omega-hydroxy-, branched	127087-87-0	5.00000	0.00002	
			Naphthalene	91-20-3	5.00000	0.00002	
			Ethoxylated alcohols	Proprietary	5.00000	0.00002	
			Hexadecene	629-73-2	5.00000	0.00002	
			Propargyl alcohol	107-19-7	5.00000	0.00002	
			Formaldehyde	50-00-0	0.10000	0.00001	
			1,2,4 Trimethylbenzene	95-63-6	1.00000	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

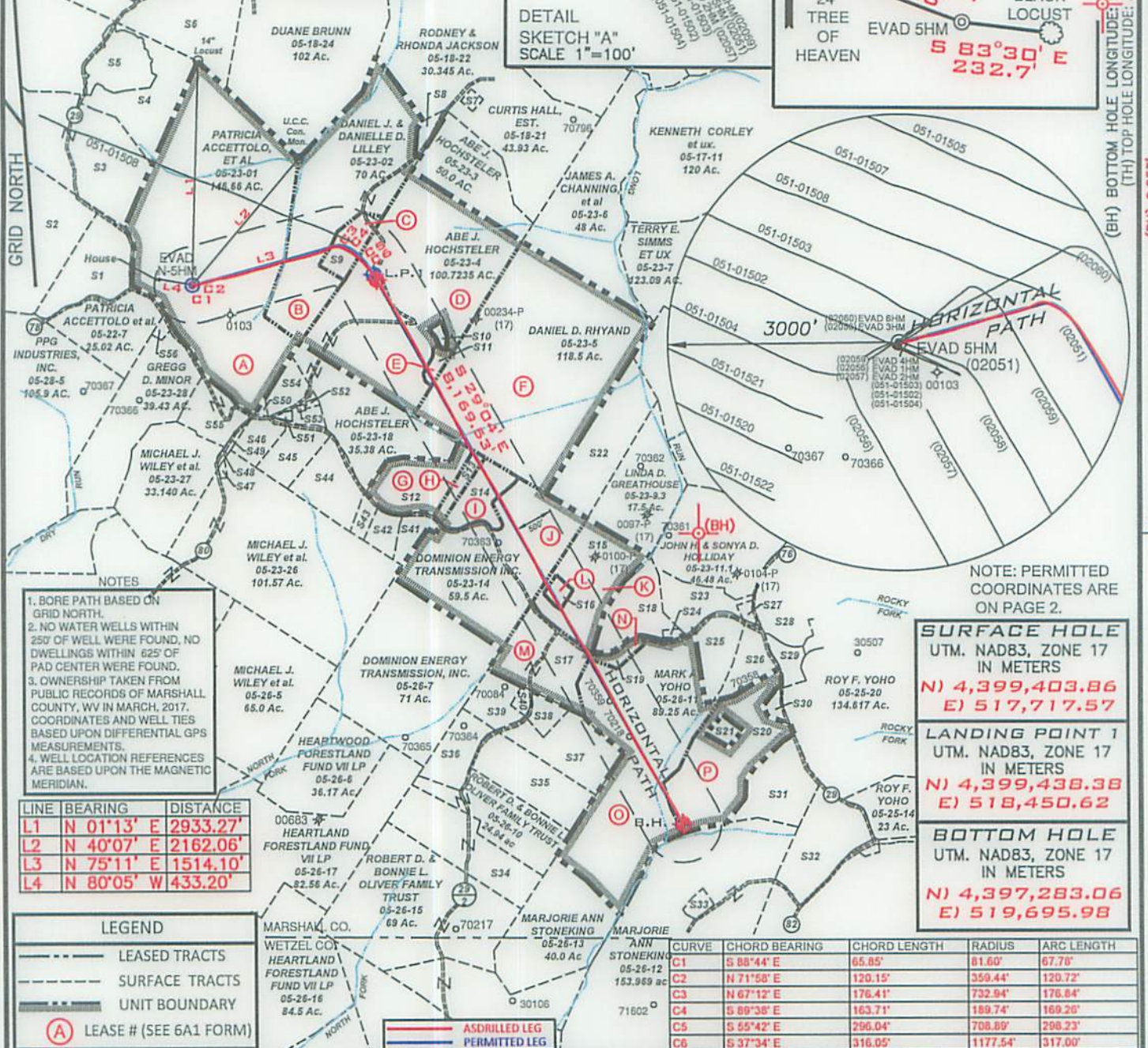
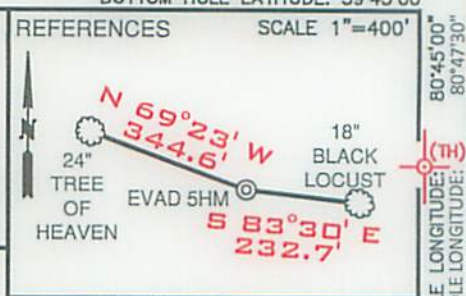
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**EVAD LEASE
WELL 5HM
721.546± ACRES**

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



- 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.

LINE	BEARING	DISTANCE
L1	N 01°13' E	2933.27'
L2	N 40°07' E	2162.06'
L3	N 75°11' E	1514.10'
L4	N 80°05' W	433.20'

LEGEND

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

SURFACE HOLE
UTM. NAD83, ZONE 17 IN METERS

N) 4,399,403.86
E) 517,717.57

LANDING POINT 1
UTM. NAD83, ZONE 17 IN METERS

N) 4,399,438.38
E) 518,450.62

BOTTOM HOLE
UTM. NAD83, ZONE 17 IN METERS

N) 4,397,283.06
E) 519,695.98

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 88°44' E	65.85'	81.60'	67.70'
C2	N 71°58' E	120.15'	359.44'	120.72'
C3	N 67°12' E	176.41'	732.84'	176.84'
C4	S 89°38' E	163.71'	189.74'	169.26'
C5	S 55°42' E	296.04'	708.89'	298.23'
C6	S 37°34' E	316.05'	1177.54'	317.00'

FILE NUMBER _____

DRAWING NUMBER EVAD_WP_5HM

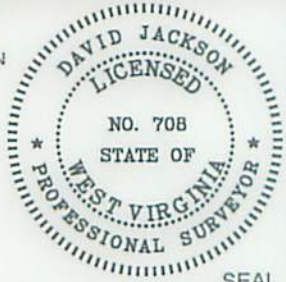
SCALE 1" = 2000'

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 1480
Clarksburg, WV 26302
304-623-5851

DATE: JULY 13, 2020

OPERATORS WELL NO. EVAD 5HM

API WELL NO. 47-051-02051

STATE WV COUNTY MARSHALL PERMIT _____

LOCATION ELEVATION 1280.9' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER LOUIS J. & PATRICIA ACCETTOLO ET AL ACREAGE 146.66

OIL & GAS ROYALTY OWNER SEE WW-6A1 Form LEASE ACREAGE 146.66

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED

PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 6,604' TMD: 15,641'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**EVAD LEASE
WELL 5HM
721.546± ACRES**

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S1	05-22-7.1	The Exploration II LLC & Antinum Marcellus LLC	20.68
S2	05-22-8	PPG Industries Inc.	48.44
S3	05-22-6	CNX RCPC LLC	64.7
S4	05-22-5	CNX RCPC LLC	134.425
S5	05-22-5.1	Williams Ohio Valley Midstream LLC	12.875
S6	05-19-18	Mark E. Yoho Et Ux	55.948
S7	05-18-21.2	David P. Lissan Et Ux - Life	1.0
S8	05-23-2.1	William L. & Janice M. Wayne	2.364
S9	05-23-2.2	Jessica N. & Andrew L. Jones	7.636
S10	05-23-4.2	James S. & Jeanne B. Hall	1.169
S11	05-23-4.1	James S. & Jeanna B. Hall	2.1575
S12	05-23-16	Roy Friend Yoho Sr.	18.03
S13	05-23-16.1	Doanld B. Henry	1.97
S14	05-23-15	Henry Virginia Ethel Est.	15.5
S15	05-23-9.2	Linda D. Greathouse	25.58
S16	05-23-9.4	Jackson R. Davis Sr. & Deanna L. Davis	2.087
S17	05-23-9.1	John W. Van Orden Et Ux	23.376
S18	05-23-13	Linda D. Greathouse	14.24
S19	05-23-12	Mark A. Yoho	3.05
S20	05-25-18	Joseph Johnson Et Ux - Life	37.746
S21	05-25-18.1	Pamela Joan Ferrel Et Vir	2.491
S22	05-23-8	Carl David & Suzanne L. Guseman	29.5
S23	05-23-18	Abe J. Hochstetler	35.382
S24	05-23-13.1	James R. & Pamela J. Ferrel	0.7625
S25	05-23-11.3	Colin R. Yoho	11.29
S26	05-23-11.5	Zachary R. Stevey	9.25
S27	05-23-11.2	Evelyn Hudson	1.154
S28	05-23-11	Roy F. Yoho	5.28
S29	05-25-20.3	James A. & Jo C. Estep	4.49
S30	05-25-19	Joseph Johnson Et Ux - Life	1.973
S31	05-25-17	Emily Jones Irrevocable Trust	22.79
S32	05-25-16	Emily Jones Irrevocable Trust	23.5
S33	05-26-12.1	Alvin F. Stoneking Jr. & Kristen R. Stoneking	2.011
S34	05-26-14	Robert D. & Bonnie L. Oliver Family Trust	27.56
S35	05-26-9	Robert D. & Bonnie L. Oliver Family Trust	21.75
S36	05-26-23	Richard Joseph Otte Et Ux	11.34
S37	05-26-8	Richard Joseph Otte Et Ux	18.27
S38	05-26-20	Doanld Lee Anderson Et Al	4.2
S39	05-26-22	Richard Joseph Otte Et Ux	8.3
S40	05-26-21	Richard Jospeh Otte Et Ux	1.25
S41	05-23-17.3	William & Catherine Flewelling	5.018
S42	05-23-17	Thomas E. & Tammy Brown	4.62
S43	05-23-17.4	Tammy D. Meadows	2.605
S44	05-23-17.2	Dick Rowan Jr & Carol J. Rowan	14.92
S45	05-23-17.1	Curtis E. Hall Et Ux	10.051
S46	05-23-22	Daniel D. Rhyand & Laurel R. Greene	6.25
S47	05-23-25	Arthur A. Wiley	0.43
S48	05-23-24	Michael J. Wiley Et Al	0.25
S49	05-23-23	Michael J. Wiley Et Al	1.0
S50	05-23-29	James Wiley	0.25
S51	05-23-21	Mark A. & Mark E. Yoho	0.588
S52	05-23-19	Doty Cemetery	1.0
S53	05-23-20	Christian Church	0.17
S54	05-23-18.1	Mark A. Yoho	7.8
S55	05-23-28.2	Mark W. & Carolyn L. Tennant	10.8
S56	05-23-28.1	Troy W. & Erin M. Thomas	1.0

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,399,403.95
E) 517,717.46

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,399,460.16
E) 518,437.89

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,397,282.87
E) 519,693.86

RECEIVED
Office of Oil and Gas
JUL 20 2020
WV Department of
Environmental Protection



P.S. 708 *David L Jackson*



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: EVAD 5HM
API #: 47-051-02051
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

WELL PLAT
PAGE 2 OF 2
DATE: 07/13/2020