

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

API 47-051-01913 County Marshall District Clay
Quad Glen Easton Pad Name Hicks Field/Pool Name _____
Farm name Thomas E. Hicks Well Number Hicks M05H
Operator (as registered with the OOG) Chevron Appalachia, LLC (49449935)
Address 700 Cherrington Parkway City Coraopolis State PA Zip 15108

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 501931.770 Easting 1626580.570
Landing Point of Curve Northing 501185.940 Easting 1623687.330
Bottom Hole Northing 509680.310 Easting 1615406.230

Elevation (ft) 1177' 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)
Synthetic - barite, fluid loss, emulsifiers, rheological control

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Date permit issued 2/23/2017 Date drilling commenced 10/18/2017 Date drilling ceased 7/13/2019
Date completion activities began 10/19/2019 Date completion activities ceased 2/29/2020
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft n/a Open mine(s) (Y/N) depths N
Salt water depth(s) ft n/a Void(s) encountered (Y/N) depths N
Coal depth(s) ft 698' and 1290' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: Jane [Signature]
4/15/2020

API 47- 051 - 01913 Farm name Thomas E. Hicks Well number Hicks M05H

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	26"	20"	60'	N	X-52 / 78.67		Y
Surface	17-1/2"	13-3/8"	510'	N	J-55 / 54.50		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	1998'	N	L-80 / 40		Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	19567	N	P-110EC / 20		Y
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	Bulk Cement					Surface	8
Surface	Class A	394	15.6	1.20	473	Surface	8
Coal							
Intermediate 1	Class A	675	15.6	1.19	804	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	4178	14.5	1.17	4906	Surface	8
Tubing							

Drillers TD (ft) 19629 Loggers TD (ft) 19629
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6822

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 _____
SURFACE: (1) on shoe track with stop collar and (1) per joint over coupling to surface.
INTERMEDIATE: (1) on shoe track with stop collar and (1) per 3 joints over coupling.
PRODUCTION: (1) centralizer every joint in the lateral and curve and (1) every other joint from KOP to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS See attached Perforation and Stimulation reports.

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API: 47-051-01913

Farm Name: Thomas E. Hicks

Well Number: Hicks M05H

PERFORATION RECORD

Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1					
2	11/22/2019	19130	19290	47	Marcellus
3	11/22/2019	18930	19090	47	Marcellus
4	11/22/2019	18730	18890	47	Marcellus
5	11/22/2019	18530	18690	47	Marcellus
6	11/23/2019	18330	18490	47	Marcellus
7	11/23/2019	18130	18290	47	Marcellus
8	11/23/2019	17930	18090	47	Marcellus
9	11/3/2019	17730	17890	47	Marcellus
10	11/24/2019	17530	17690	47	Marcellus
11	11/24/2019	17330	17490	47	Marcellus
12	11/24/2019	17130	17290	47	Marcellus
13	11/24/2019	16930	17090	47	Marcellus
14	11/25/2019	16730	16890	47	Marcellus
15	11/25/2019	16530	16690	47	Marcellus
16	11/25/2019	16330	16490	47	Marcellus
17	11/25/2019	16130	16290	47	Marcellus
18	11/25/2019	15930	16090	47	Marcellus
19	11/26/2019	15730	15890	47	Marcellus
20	11/26/2019	15530	15690	47	Marcellus
21	11/26/2019	15330	15490	47	Marcellus
22	11/26/2019	15130	15290	47	Marcellus
23	11/27/2019	14930	15090	47	Marcellus
24	11/27/2019	14730	14890	47	Marcellus
25	11/27/2019	14530	14690	47	Marcellus
26	22/27/2019	14330	14490	47	Marcellus
27	11/28/2019	14130	14290	47	Marcellus
28	11/28/2019	13930	14090	47	Marcellus
29	11/28/2019	13730	13890	47	Marcellus
30	11/28/2019	13530	13690	47	Marcellus
31	11/29/2019	13330	13490	47	Marcellus
32	11/29/2019	13130	13290	47	Marcellus
33	11/29/2019	12930	13090	47	Marcellus
34	11/29/2019	12730	12890	47	Marcellus
35	11/30/2019	12530	12690	47	Marcellus
36	11/30/2019	12330	12490	47	Marcellus
37	11/30/2019	12130	12290	47	Marcellus
38	11/30/2019	11930	12090	47	Marcellus
39	11/30/2019	11730	11890	47	Marcellus
40	12/1/2019	11530	11690	47	Marcellus
41	12/1/2019	11330	11490	47	Marcellus
42	12/1/2019	11130	11290	47	Marcellus
43	12/1/2019	10930	11090	47	Marcellus
44	12/2/2019	10730	10890	47	Marcellus
45	12/2/2019	10530	10690	47	Marcellus
Please insert additional copies of this page if additional rows/stages are needed.					

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API: 47-051-01913	Farm Name: Thomas E. Hicks	MAR 16 2020	Well Number: Hicks M05H
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WV Department of
Environmental Protection**STIMULATION INFORMATION / STAGE**

Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).

Stg No.	Stimulation 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)
1								
2	11/22/2019	90.9	8825	5411	3398	400250	9447	n/a
3	11/22/2019	99.5	8294	4523	4067	400816	10196	n/a
4	11/22/2019	98.9	8716	6022	4279	400218	10085	n/a
5	11/22/2019	98.9	8701	5514	4342	400255	9949	n/a
6	11/23/2019	97.7	8592	4477	4290	400387	9923	n/a
7	11/23/2019	100	8437	3944	4080	401216	9919	n/a
8	11/23/2019	100	8504	4103	4375	400420	9848	n/a
9	11/3/2019	99.8	8478	3947	4297	400021	9883	n/a
10	11/24/2019	99.4	8140	4168	4259	402264	9890	n/a
11	11/24/2019	98.7	8747	4096	4094	400463	9886	n/a
12	11/24/2019	98.6	8731	3449	3962	400647	10096	n/a
13	11/24/2019	99.6	8748	3879	4108	400133	9775	n/a
14	11/25/2019	99.2	8671	4178	3846	400107	9853	n/a
15	11/25/2019	99.4	8571	4093	4513	403866	9802	n/a
16	11/25/2019	100.3	8580	4054	4110	401024	9775	n/a
17	11/25/2019	100.3	8301	4144	4096	400131	9748	n/a
18	11/25/2019	99.6	8371	3884	3917	400717	9753	n/a
19	11/26/2019	99.5	8398	3814	4367	400085	9720	n/a
20	11/26/2019	99.9	8490	5362	4403	401484	9712	n/a
21	11/26/2019	99.6	8497	4780	4247	401832	9765	n/a
22	11/26/2019	99.8	8074	3380	4216	400768	9760	n/a
23	11/27/2019	99.7	8294	3600	4165	400568	9780	n/a
24	11/27/2019	100.1	8554	4413	4551	402767	9690	n/a
25	11/27/2019	100.1	8639	5326	4168	401303	9688	n/a
26	22/27/2019	99.2	8315	4536	5106	400440	9646	n/a
27	11/28/2019	100.6	8111	3762	4197	401394	9653	n/a
28	11/28/2019	101	8287	4939	4214	401382	9616	n/a
29	11/28/2019	99.9	8237	3478	4493	400821	9646	n/a
30	11/28/2019	100.7	8309	4626	4251	400619	9654	n/a
31	11/29/2019	99.4	8508	4051	4366	401639	9590	n/a
32	11/29/2019	99.9	8797	5095	4515	403139	9839	n/a
33	11/29/2019	100.3	8544	4911	4679	401135	9526	n/a
34	11/29/2019	99.9	8622	5211	4144	400912	9592	n/a
35	11/30/2019	99.9	8681	5008	4456	399093	9558	n/a
36	11/30/2019	100	8455	5362	4362	401402	9510	n/a
37	11/30/2019	100.3	8396	5602	4355	401409	9527	n/a
38	11/30/2019	99.6	8421	4128	4558	400568	9530	n/a
39	11/30/2019	99.6	8261	4222	4304	400379	9490	n/a
40	12/1/2019	100.4	8304	4934	4464	400860	9582	n/a
41	12/1/2019	100.2	8352	4996	4340	400923	9457	n/a
42	12/1/2019	100	8235	3881	4372	404021	9511	n/a
43	12/1/2019	99.4	8236	4695	4761	400597	9417	n/a
44	12/2/2019	100.8	8211	5915	4603	400913	9374	n/a
45	12/2/2019	100.3	7950	5723	4593	401307	9432	n/a

API: 47-051-01913

Farm Name: Thomas E. Hicks

Well Number: Hicks M05H

Lithology/Tops	MD Top	MD Base	TVD Top	TVD Base	Describe rock type and record quantity and type of fluid (Freshwater, Brine, Oil, Gas, H2S, Etc.)
Pittsburgh Coal	698	704	676	682	coal
Conemaugh	704	1096	704	1096	shale & siltstone transitioning to shale & limestone at base; gas shows
Allegheny	1096	1304	1096	1304	limey siltstones and shales; oil show
Clairion Coal	1290	1,297	1290	1297	coal
Salt Sands	1,304	1,545	1304	1544	interbedded sands and shales; gas shows
Mauch Chunk	1,545	1,666	1544	1665	sandy/silty shales
Big Lime	1,666	1,733	1665	1731	siltstone transitioning to limestone base
Burgoon	1,733	1,952	1731	1947	sandstone
Weir Shale	1,952	2,070	1947	2070	shale; brine
CHQA	6908.39	7021.87	6054.26	6127.76	siltstone/shale, gas shows
MDLX	7021.87	7064.23	6127.76	6153.13	shale
PYAN	7064.23	7127.38	6153.13	6187.99	siltstone/shale, gas show
BRKT	7127.38	7170.85	6187.99	6210.01	shale
BRKT.a	7170.85	7201.24	6210.01	6224.46	shale
TLly	7201.24	7287.26	6224.46	6261.74	limestone, gas shows
S5	7287.26	7508.81	6261.74	6326.84	shale, gas shows
S3	7508.81	7603.92	6326.84	6345.71	shale, gas shows
STFD	7603.92	7612.31	6345.71	6346.91	limestone
S2.B	7612.31	7645.05	6346.91	6350.61	shale, gas shows
S2.A	7645.05		6350.61		shale, gas shows
PRCL					limestone, gas shows
S1.B					shale, gas shows
Alpha					shale, gas shows
TD	19637.00		6225.65		

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API: 47-051-01913	Farm Name: Thomas E. Hicks	Well Number: Hicks M05H
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DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name Precision Drilling Holdings Company
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10350 Richmond Avenue, Suite 700
City - State - Zip Vernal, UT 84078	City - State - Zip Charlestown, WV 25301	City - State - Zip Houston, TX 77042

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/22/2019
Job End Date:	12/4/2019
State:	West Virginia
County:	Marshall
API Number:	47-051-01913-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Hicks M05H
Latitude:	39.87168800
Longitude:	-80.76825100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,358
Total Base Water Volume (gal):	23,824,710
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	Chevron	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.31714	None
Sand	JPP	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	10.50029	None
FR-11	JPP	Friction reducer	Water	7732-18-5	55.00000	0.03554	None
			Hydrotreated Petroleum Distillate	64742-47-8	25.00000	0.01616	None
			CHEMPLEX-Polymer_00019	Trade Secret	25.00000	0.01616	None
			Sodium Chloride	7647-14-5	15.00000	0.00969	None
			Alcohol Ethoxyate Surfactants	68551-12-2	3.00000	0.00194	None
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00194	None
			Ammonium Chloride	12125-02-9	2.00000	0.00129	None
			Polyoxyethylene Sorbitan Monooleate	9005-65-6	1.00000	0.00065	None
HCL Acid (7.5%)	JPP	Acidizing	Hydrochloric Acid	7647-01-0	7.50000	0.07856	None
K-BAC 1020	JPP	Bioicide					



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Submitted 1/27/20

Other Chemical(s)	Listed Above	See Trade Name(s) List	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.	Ingredients shown below are Non-MSDS.	Ingredients shown below are Non-MSDS.	Ingredients shown below are Non-MSDS.	Ingredients shown below are Non-MSDS.	Ingredients shown below are Non-MSDS.	Ingredients shown below are Non-MSDS.
			Polyethylene glycol	25322-68-3	50.00000	0.01042	None		
			Water	7732-18-5	30.00000	0.00625	None		
			2,2-Dibromo-3-nitropropanamide	102222-01-2	21.00000	0.00438	None		
Scale Hlb PE-18	Upp	Scale Inhibitor	Ethylene glycol	107-21-1	40.00000	0.00707	None		
			Proprietary Scale Inhibitor	Proprietary	30.00000	0.00530	None		
T/L	Upp	Iron Control Agent	Ammonium glycolate	35249-89-9	20.00000	0.00414	None		
			Ethylene Glycol	107-21-1	20.00000	0.00414	None		
			Hydroxyacetic acid	79-14-1	5.00000	0.00103	None		
Urinhb G	Upp	Acid Inhibitor	Butyl diglycol	112-34-5	75.00000	0.00062	None		
			Alcohol, C10-16, ethoxylated	68002-97-1	50.00000	0.00041	None		
			Methanol	67-56-1	5.00000	0.00004	None		
			Thiourea	62-56-6	1.00000	0.00001	None		
			Formaldehyde	50-00-0	1.00000	0.00001	None		
			Water	7732-18-5	55.00000	0.03554			
			Hydrotreated Petroleum Distillate	64742-47-8	25.00000	0.01616			
			Polyethylene glycol	25322-68-3	50.00000	0.01042			
			Sodium Chloride	7647-14-5	15.00000	0.00969			
			Ethylene glycol	107-21-1	40.00000	0.00707			
			Water	7732-18-5	30.00000	0.00625			
			Ammonium glycolate	35249-89-9	20.00000	0.00414			
			Alcohol Ethoxylate Surfactants	68551-12-2	3.00000	0.00194			
			Oleic Acid Diethanolamide	93-83-4	3.00000	0.00194			
			Ammonium Chloride	12125-02-9	2.00000	0.00129			
			Hydroxyacetic acid	79-14-1	5.00000	0.00103			
			Polyoxyethylene Sorbitan Monooleate	9005-65-6	1.00000	0.00065			
			Alcohol, C10-16, ethoxylated	68002-97-1	50.00000	0.00041			
			Methanol	67-56-1	5.00000	0.00004			
			Formaldehyde	50-00-0	1.00000	0.00001			
			Thiourea	62-56-6	1.00000	0.00001			

* 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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Jackie M. Scholar
Regulatory Reporting Coordinator

March 9, 2020

CERTIFIED MAIL: 7016 0340 0000 4903 6959

WV DEP
Office of Oil and Gas
601 – 57th Street
Charleston, WV 25304

RE: Well Operator's Report of Well Work WR-35
Hicks M05H

Dear Sir/Madam,

Enclosed here within please find one (1) Well Operator's Report of Well Work WR-35, one (1) copy of the Plat on Mylar, one (1) copy of the FracFocus report, and one (1) copy of the Directional Survey for **Hicks M05H, (API 47-051-01901)**.

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If you have any questions, please contact me at (412) 865-3422. Thank you.

Sincerely,
Chevron Appalachia, LLC

Jackie M. Scholar

Enclosures

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BHL is located on topo map 8,797 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 1,207 feet south of Latitude: 39° 52' 30"

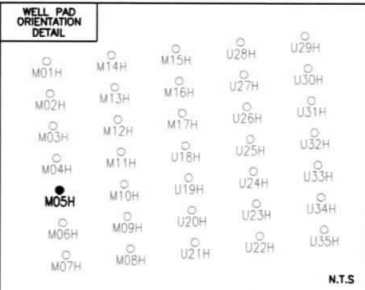
SEE PAGE 2 AND 3 FOR SURFACE OWNERS AND LESSORS



AS DRILLED PLAT

NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
- There are no existing buildings within 625' of proposed well.



LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY - PARCEL LINES
- WELL REFERENCE
- AS-DRILLED LATERAL
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS

PERMITTED
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4415855.58
E:520648.80
NAD83, WV NORTH
N:509673.681
E:1615398.330
LAT/LON-NAD83
LAT:39°53'33.06"
LON:80°45'30.51"

AS DRILLED
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4415857.64
E:520651.17
NAD83, WV NORTH
N:509680.310
E:1615406.230
LAT/LON-NAD83
LAT:39°53'33.125"
LON:80°45'30.410"

PERMITTED
APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4413310.97
E:523223.48
NAD83, WV NORTH
N:501182.302
E:1623707.591
LAT/LON-NAD83
LAT:39°52'10.28"
LON:80°43'42.42"

AS DRILLED
APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4413311.97
E:523217.29
NAD83, WV NORTH
N:501185.940
E:1623687.330
LAT/LON-NAD83
LAT:39°52'10.315"
LON:80°43'42.681"

LINE	BEARING	DISTANCE
R1	N 45°01'13" E	193.51'
R2	N 23°26'37" E	148.00'
R3	N 10°13'33" W	147.12'
R4	N 13°30'58" W	1333.16'
R5	N 37°29'14" E	1110.96'
R6	S 00°41'31" W	1099.05'

THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
PHONE (304) 624-4108 FAX (304) 624-7831

FILE #: HICKS M05H-AS DRILLED
 DRAWING #: HICKS M05H-AS DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 ENVIRONMENTAL PROTECTION.

Signed: *George D. Six*

R.P.E.: _____ L.L.S.: P.S. No. 2000



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: JANUARY 31, 2020
 OPERATOR'S WELL #: HICKS M05H-AS DRILLED
 API WELL #: 47 51 01913
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1178.56'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: THOMAS E. HICKS ACREAGE: 172.100±

OIL & GAS ROYALTY OWNER: CHRISTA DAWN HICKS, ET AL ACREAGE: 876.401±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): AS DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,600'± TMD: 20,256.76'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

BHL is located on topo map 2,378 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 2,784 feet west of Longitude: 80° 42' 30"



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HICKS M05H PAGE 2 OF 3 AS DRILLED PLAT

	SURFACE OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	4-8/37
2	LILLIE LAVERN GAREY	4-8/36
3	VICKIE L. & SIDNEY P. POND	4-8/36.1
4	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
5	SIDNEY P. POND ET UX	4-8/36.2
6	MABEL JUANITA WILLIAMS	4-8/23
7	HENRY W. & LINDA M. ASTON - LIFE	4-8/19
8	BONAR FAMILY IRREVOCABLE TR	4-8/18
9	HENRY W. & LINDA M. ASTON - LIFE	4-8/17
10	CAROL ANN JORDAN	4-8/15
11	CHARLES W. JR. & JUDY MERCER	4-8/16
12	MARY E. & JANET C. PERSINGER	4-5/54.1
13	MARSHALL CO AIRPORT AUTHORITY	4-5/54.3
14	BRADLEY C. RINE	4-5/52
15	BRENDA FAYE RINE	4-5/52.1
16	BRENDA FAYE RINE	4-5/52.2
17	GREGORY E. & SUELYNN E. HOWE	4-5/51.1
18	ETHEL FAYE HOWE	4-5/51
19	BRADLEY C. RINE	4-5/50.5
20	GEOFFREY ERIC HOWE	4-5/50
21	ROBERT P. CARNAHAN ET UX	4-5/50.4
22	SARAH J. KNABENSHUE ET AL	4-5/56
23	CLEMENT R. & NANCY L. SHUTLER	4-5/56.3
24	SETH C. WEEKLY	4-5/57.1
25	HALI R. & JASON R. PORTER	4-5/57
26	*WANDA BLAKE - LIFE	4-5B/1
27	CURTIS W. ALLEN ET UX	4-5/26.1
28	JAMES COFER ET UX	4-5/25
29	LOREN F. CECIL ET UX - LIFE	4-5/24
30	LOREN F. CECIL ET UX - LIFE	4-5/21
31	*ROSALIE G. UTTER	4-5/20
32	WYNN T. MURPHY ET UX	4-2/29.2
33	WYNN T. MURPHY ET UX	4-2/29.4
34	*NORMA LEE CHAMBERS	4-2/29.8
35	JOSEPH L. & CHRISTEN R. BLAKE	4-2/27
36	*DONNIE K MASTERS ET UX	4-2/28
37	ALLEN NORMAN	4-2/27.1

PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4413553.919
E:524094.936
NAD83, WV NORTH
N:501931.752
E:1626580.602
LAT/LON-NAD83
LAT:39°52'18.075"
LON:80°43'05.706"

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4413310.97
E:523223.48
NAD83, WV NORTH
N:501182.302
E:1623707.591
LAT/LON-NAD83
LAT:39°52'10.28"
LON:80°43'42.42"

PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4415855.58
E:520648.80
NAD83, WV NORTH
N:509673.681
E:1615398.330
LAT/LON-NAD83
LAT:39°53'33.06"
LON:80°45'30.51"

AS DRILLED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4413553.92
E:524094.93
NAD83, WV NORTH
N:501931.770
E:1626580.570
LAT/LON-NAD83
LAT:39°52'18.075"
LON:80°43'05.706"

AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4413311.97
E:523217.29
NAD83, WV NORTH
N:501185.940
E:1623687.330
LAT/LON-NAD83
LAT:39°52'10.315"
LON:80°43'42.681"

AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4415857.64
E:520651.17
NAD83, WV NORTH
N:509680.310
E:1615406.230
LAT/LON-NAD83
LAT:39°53'33.125"
LON:80°45'30.410"

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

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THRASHER

	LESSOR	DIST-TM/PAR
A	CHRISTA DAWN HICKS, ET AL.	4-8/37
B	LILLIE LAVERN GAREY	4-8/36
C	SIDNEY P. POND, ET UX.	4-8/36.1
D	CNX GAS COMPANY, LLC.	4-12/25
E	SIDNEY P. POND, ET UX.	4-8/36.2
F	MABEL J. WILLIAMS	4-8/23
G	HENRY ASTON, ET UX.	4-8/19
H	BONAR FAMILY IREV TRST DTD 2/12/2009	4-8/18
J	HENRY ASTON, ET UX.	4-8/17
	LEO GAMBLE	
	BILLIE D. BRENNAN	
	BARBARA RIGGLE	
	NOREEN G. MILLER, ET VIR.	
	ANNE LONG HAND, ET VIR.	
	JOHN M. GAMBLE	
	MARGARET M. VERRALL	
	LARRY MCCULLOUGH	
	MARK CARTER GAMBLE	
	CHARLES PAUL GAMBLE, ET UX.	
	CLARICE BURT	
	DONALD CARMICHAEL	
	JANE ANN DAY	
	PEGGY FILLMORE	
	BILLIE JO GARNER	
	ARDITH HOLMES	
	ELEANOR HOLMES	
	GENE LAWSON HOLMES	
	JANICE A. HOLMES	
	MARY HOLMES	
	MITCHELL R. HOLMES	
	RONALD LEMOYNE HOLMES	
	TIM HOLMES	
	VIRGINIA HOLMES	
	MYRNA LOUANN HOLSTINE	
	LYLA LORRAINE HUBBS	
	BONNIE LIBRIZZI	
	MARY LOUISE LIPSKY	
	KAREN V. MAAS	
	VERA MARIE MIDCAP	
	MAVARENE L. REDD	
	EULA RICHARDS BY AIF CAROYLN THOMPSON	
	HELEN M. RINE	
	MARILYN LAVONDA RULONG	
	VIOLET P. STANDIFORD	
	CHRISTINE A. CIOCCIA	
	SHIRLEY DULANEY	
	WILLIAM EARNEST	
	JANE ANN GAMBLE	
	JULIA GAMBLE BY AIF MARY JO DOMBROWSKI	
	HOWARD MCCARDLE	
	JOAN MILLIKEN	
	SHERWIN LEE RUCKMAN	
	BOBBI JO STARK	
	BELINDA S. WEST	
	MARY ELLEN WHIPKEY	
	ROBIN WILLIAMS	
	LLOYD ELWOOD HOLMES	
K	CAROL JORDAN	4-8/15
L	SANDRA KAY WARNER	4-8/16
	PATSY SUE BAYHA	
	HALLIE LU PETERSON	
	LUCRETIA LEE	
	DELLA K. BOONE	
	DENNIS PARSONS	
	DR. CASPER E. CLINE	
	CHARLOTTE L. STROMSLAND	
M	JOHN L. FOX	4-5/54.1
	KAREN M. FOX	
	CHRISTI F. PRESTON	
	JOHN L. FOX II	
	CYNTHIA S. HAMILTON	
	DOROTHY A. ARGENTA	
	JOAN E. KRESS	
	WILLIAM P. ARGENTA	
	PAUL T. ARGENTA	
	MARY E. PERSINGER	
	JANET C. HUNNELL	
	MICHAEL PERSINGER	
	BETH BLAKE	
	KAREN FOX EVANS	
	WILLIAM B. FOX	
	LINDA SMITH	
	ANN MILLER	

	LESSOR	DIST-TM/PAR
N	JOHN LEONARD FOX	4-5/54.3
	KAREN M. FOX	
	CHRISTI F. PRESTON	
	JOHN L. FOX II	
	CYNTHIA S. HAMILTON	
	DOROTHY A. ARGENTA	
	JOAN E. KRESS	
	WILLIAM P. ARGENTA	
	PAUL T. ARGENTA	
	MARY E. PERSINGER	
	JANET C. HUNNELL	
	MICHAEL PERSINGER	
	BETH BLAKE	
	KAREN FOX EVANS	
	BRAD FOX	
	LINDA S. SMITH	
	ANN MILLER	
P	LINDSEY E. RACKLEY	4-5/52
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
Q	LINDSEY E. RACKLEY	4-5/51.1
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
R	LINDSEY E. RACKLEY	4-5/51
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
S	LINDSEY E. RACKLEY	4-5/50.5
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
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	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
T	LINDSEY E. RACKLEY	4-5/50
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
U	LINDSEY E. RACKLEY	4-5/50.4
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
V	HOWARD E. CONNER, ET AL.	4-5/56
W	CLEMENT R. SHUTLER, ET UX.	4-5/56.3
X	SETH C. WEEKLY, ET UX.	4-5/57.1
Y	HILDA A. BLAKE	4-5/57
Z	*GAREN BLAKE, ET UX.	4-5B/1
AA	CURTIS ALLEN, ET UX.	4-5/26.1
BB	JAMES COFER, ET UX.	4-5/25
CC	LOREN CECIL, ET AL.	4-5/24
DD	LOREN CECIL, ET AL.	4-5/21
EE	*ROSALIE G. UTTER	4-5/20
FF	WYNN MURPHY	4-2/29.2
GG	WYNN MURPHY	4-2/29.4
HH	NORMA LEE CHAMBERS	4-2/29.8
JJ	JOSEPH BLAKE, ET UX.	4-2/27
KK	*DONNIE K. MASTERS	4-2/28

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* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

JANUARY 31, 2020

API 47-051-01913 Farm name Thomas E. Hicks Well number Hicks M05H

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
Marcellus	6351'	7645'

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2600 psi Bottom Hole 4000 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 2341 mcfpd Oil 624 bpd NGL bpd Water 244 bpd GAS MEASURED BY 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	
SEE	0 ATTACHED		0		<p style="text-align: right;">RECEIVED Office of Oil and Gas SEP 03 2020 WV Department of Environmental Protection</p>

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
Address _____ City _____ State _____ Zip _____

Logging Company Stratagraph NE Inc
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company BJ Services
Address 3415 Millennium Boulevard SE City Massillon State OH Zip 44646

Stimulating Company Universal Pressure Pumping
Address 18360 Technology Drive City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 412-865-3422
Signature [Signature] Title Regulatory Compliance Team Lead Date 8/282020