

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

RECEIVED
Office of Oil and Gas

APR 5 2022

WV Department of
Environmental Protection

API 47-051-02157 County Marshall District Washington
Quad Moundsville Pad Name Hines Field/Pool Name N/A
Farm name Donald Hines et UX Well Number Hines M03H
Operator (as registered with the OOG) EQT CHAP LLC
Address 400 Woodcliff Drive 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 4,417,400.72 Easting 525,699.12
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing 4,417,394.02 Easting 525,621.97

Elevation (ft) 1125' 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)

Date permit issued 02/22/2019 Date drilling commenced 03/20/2019 Date drilling ceased 04/30/2019
Date completion activities began _____ Date completion activities ceased _____
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 365 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1039,1595,1632 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 365,655 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed

Reviewed by:
MDK 5/11/22
05/27/2022

API 47-051 - 02157

Farm name Donald Hines et UX

Well number Hines M03H

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	20"	50'	NEW	X-52 78.6#	N/A	Y
Surface	17-1/2"	13-3/8"	445'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2037'	NEW	L-80 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production						N/A	N
Tubing							
Packer type and depth set							

Comment Details

No issues during cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	N/A	N/A	N/A	N/A	0	8+
Surface	CLASS A	448	15.6	1.19	533	0	8
Coal							
Intermediate 1	CLASS A	688	15.6	1.19	818	0	8
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 5576'

Loggers TD (ft) N/A

Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

Plug back procedure

Kick off depth (ft) 637'

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

CONDUCTOR- NONE

SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE

INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET 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

API 47- 051 - 02157 Farm name Donald Hines et UX Well number Hines M03H

PERFORATION RECORD

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

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)

Please insert additional pages as applicable.

API 47- 051 - 02157 Farm name Donald Hines et UX Well number Hines M03H

PRODUCING FORMATION(S)

DEPTHS

_____	_____ TVD	_____ MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Highlands Drilling LLC
Address 900 Virginia Street East City Charleston State WV Zip 25301

Logging Company Baker Hughes
Address 400 Technology Dr Suite 100 City Canonsburg State PA Zip 15317

Cementing Company BJ Services
Address 1036 East Main Street City Bridgeport State WV Zip 26330
Cementing Company _____
Address _____ City + _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Derek Ridgway Telephone 412-395-3139
Signature *Derek Ridgway* 11/18/2021 Title Managing Director of Drilling Date 11/18/2021

API 47- 051 - 02157 Farm name Donald Hines et UX Well number Hines M03H

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company Scientific Drilling International
Address 124 Vista Drive City Charleroi State PA Zip 15022

Logging Company _____
Address _____ City _____ State _____ Zip _____

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Well # Hines M03H Final Formations API # 47-051-02157

Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	365	365
Waynesburg Coal	365	365	368	368
Sand/Shale	368	368	655	655
Pittsburgh Coal	655	655	661	661
Sand/Shale	661	661	1,595	1,594
Big Lime	1,595	1,594	1,657	1,655
Sand/Shale	1,657	1,655	1,831	1,828
Burgoon	1,831	1,828	1,984	1,979
Sand/Shale	1,984	1,979	2,198	2,192
Berea	2,198	2,192	2,219	2,213
Sand/Shale	2,219	2,213	2,455	2,449
Gordon	2,455	2,449	2,530	2,524
Sand/Shale	2,530	2,524	4,977	4,971
Elk	4,977	4,971	4,978	4,972
Sand/Shale	4,978	4,972	5,576	5,553

05/27/2022

BHL is located on topo map 3,823 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 3,802 feet south of Latitude: 39° 55' 00"

SURFACE OWNER		DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
LESSOR		DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30

AS-DRILLED LOCATIONS UTM 17-NAD83(M)	
SURFACE HOLE LOCATION (SHL)	
N:4417400.72	E:525699.12
APPROX LANDING POINT (LP)	
N:N/A	E:N/A
BOTTOM HOLE LOCATION (BHL)	
N:4417394.02	E:525621.97

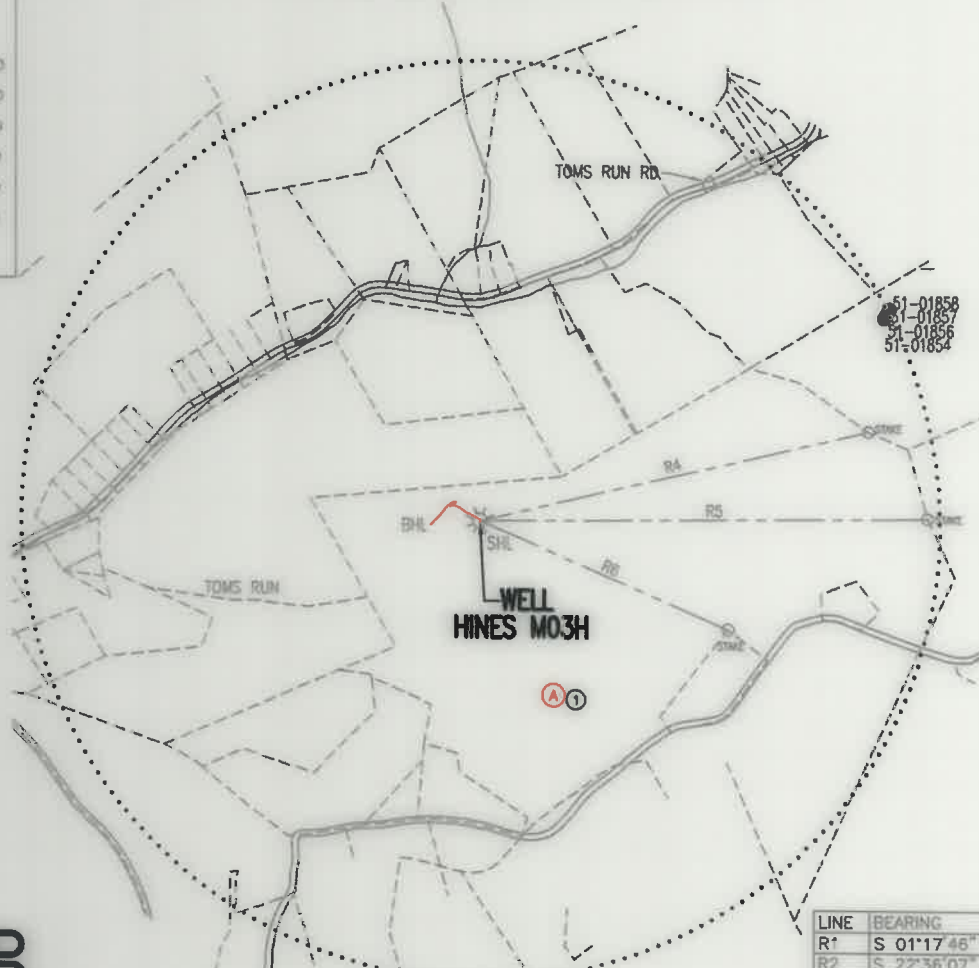
NOTES:

- 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.



WELL PAD OPERATIONS DETAIL			
M01HO	W14HO	U15HO	U28HO
M02HO	W13HO	U18HO	U27HO
M03HO	W12HO	U17HO	U26HO
M04HO	W11HO	U16HO	U25HO
M05HO	W10HO	U15HO	U24HO
M06HO	W09HO	U14HO	U23HO
M07HO	W08HO	U13HO	U22HO
M08HO	W07HO	U12HO	U21HO
M09HO	W06HO	U11HO	U20HO
M10HO	W05HO	U10HO	U19HO
M11HO	W04HO	U09HO	U18HO
M12HO	W03HO	U08HO	U17HO
M13HO	W02HO	U07HO	U16HO
M14HO	W01HO	U06HO	U15HO
M15HO	W00HO	U05HO	U14HO
M16HO	W99HO	U04HO	U13HO
M17HO	W98HO	U03HO	U12HO
M18HO	W97HO	U02HO	U11HO
M19HO	W96HO	U01HO	U10HO
M20HO	W95HO	U00HO	U09HO
M21HO	W94HO	U99HO	U08HO
M22HO	W93HO	U98HO	U07HO
M23HO	W92HO	U97HO	U06HO
M24HO	W91HO	U96HO	U05HO
M25HO	W90HO	U95HO	U04HO
M26HO	W89HO	U94HO	U03HO
M27HO	W88HO	U93HO	U02HO
M28HO	W87HO	U92HO	U01HO
M29HO	W86HO	U91HO	U00HO
M30HO	W85HO	U90HO	U99HO
M31HO	W84HO	U89HO	U98HO
M32HO	W83HO	U88HO	U97HO
M33HO	W82HO	U87HO	U96HO
M34HO	W81HO	U86HO	U95HO
M35HO	W80HO	U85HO	U94HO
M36HO	W79HO	U84HO	U93HO
M37HO	W78HO	U83HO	U92HO
M38HO	W77HO	U82HO	U91HO
M39HO	W76HO	U81HO	U90HO
M40HO	W75HO	U80HO	U89HO
M41HO	W74HO	U79HO	U88HO
M42HO	W73HO	U78HO	U87HO
M43HO	W72HO	U77HO	U86HO
M44HO	W71HO	U76HO	U85HO
M45HO	W70HO	U75HO	U84HO
M46HO	W69HO	U74HO	U83HO
M47HO	W68HO	U73HO	U82HO
M48HO	W67HO	U72HO	U81HO
M49HO	W66HO	U71HO	U80HO
M50HO	W65HO	U70HO	U79HO
M51HO	W64HO	U69HO	U78HO
M52HO	W63HO	U68HO	U77HO
M53HO	W62HO	U67HO	U76HO
M54HO	W61HO	U66HO	U75HO
M55HO	W60HO	U65HO	U74HO
M56HO	W59HO	U64HO	U73HO
M57HO	W58HO	U63HO	U72HO
M58HO	W57HO	U62HO	U71HO
M59HO	W56HO	U61HO	U70HO
M60HO	W55HO	U60HO	U69HO
M61HO	W54HO	U59HO	U68HO
M62HO	W53HO	U58HO	U67HO
M63HO	W52HO	U57HO	U66HO
M64HO	W51HO	U56HO	U65HO
M65HO	W50HO	U55HO	U64HO
M66HO	W49HO	U54HO	U63HO
M67HO	W48HO	U53HO	U62HO
M68HO	W47HO	U52HO	U61HO
M69HO	W46HO	U51HO	U60HO
M70HO	W45HO	U50HO	U59HO
M71HO	W44HO	U49HO	U58HO
M72HO	W43HO	U48HO	U57HO
M73HO	W42HO	U47HO	U56HO
M74HO	W41HO	U46HO	U55HO
M75HO	W40HO	U45HO	U54HO
M76HO	W39HO	U44HO	U53HO
M77HO	W38HO	U43HO	U52HO
M78HO	W37HO	U42HO	U51HO
M79HO	W36HO	U41HO	U50HO
M80HO	W35HO	U40HO	U49HO
M81HO	W34HO	U39HO	U48HO
M82HO	W33HO	U38HO	U47HO
M83HO	W32HO	U37HO	U46HO
M84HO	W31HO	U36HO	U45HO
M85HO	W30HO	U35HO	U44HO
M86HO	W29HO	U34HO	U43HO
M87HO	W28HO	U33HO	U42HO
M88HO	W27HO	U32HO	U41HO
M89HO	W26HO	U31HO	U40HO
M90HO	W25HO	U30HO	U39HO
M91HO	W24HO	U29HO	U38HO
M92HO	W23HO	U28HO	U37HO
M93HO	W22HO	U27HO	U36HO
M94HO	W21HO	U26HO	U35HO
M95HO	W20HO	U25HO	U34HO
M96HO	W19HO	U24HO	U33HO
M97HO	W18HO	U23HO	U32HO
M98HO	W17HO	U22HO	U31HO
M99HO	W16HO	U21HO	U30HO
M00HO	W15HO	U20HO	U29HO

BHL is located on topo map 9,482 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 9,229 feet west of Longitude: 80° 40' 00"



LINE	BEARING	DISTANCE
R1	S 01°17'46" E	197.24
R2	S 22°36'07" W	195.45
R3	S 72°56'28" W	162.58
R4	N 78°32'32" E	2086.00'
R5	N 89°17'40" E	2338.22'
R6	S 66°41'22" E	1411.34'

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

THRASHER
 THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108

AS DRILLED PLAT

FILE #: HINES M03H -- AS DRILLED
 DRAWING #: HINES M03H - AS DRILLED
 SCALE: 1" = 1000'
 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: Joseph H. Lowther
 R.P.E.: _____ L.L.S.: P.S. No. 2346



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



DATE: DECEMBER 13, 2021
 OPERATOR'S WELL #: HINES M03H - AS DRILLED
 API WELL #: 47 51 2157
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1125.45'

COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: DONALD HINES ET UX ACREAGE: 114.934±

OIL & GAS ROYALTY OWNER: DONALD HINES ET UX ACREAGE: 114.934± 05/27/2022

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 PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 5,577± TMD: 5,600±

WELL OPERATOR EQT CHAP, LLC DESIGNATED AGENT JOSEPH C. MALLOW
 Address 400 WOODCLIFF DRIVE Address 427 MIDSTATE DRIVE
 City CANONSBURG State PA Zip Code 15317 City CLARKSBURG State WV Zip Code 26301