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

Quad New Milton 7.5' Pad Name Key Oil Field/PA	pe of Report
Farm name I. L. Morris	T. Maxwell #11 The WV Zip 26452 The WV Zip 264
Operator (as registered with the OOG) Address 22 Garton Plaza As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviat Top hole Northing NA Easting	zip 26452
Address 22 Garton Plaza City Weston Sta As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviat Top hole Northing N/A Easting N/A Landing Point of Curve Northing N/A Easting N/A Bottom Hole Northing N/A Easting N/A Elevation (ft) 974' GL Type of Well New Existing Ty Permit Type Deviated Horizontal Horizontal 6A Vertical Deviated Horizontal Plug Back Redrilling Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution of Type of Completion Single Multiple Fluids Produced Brine Gas NC Drilled with Cable Rotary Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Production hole Air Mud Fresh Water Brine Mud Type(s) and Additive(s) Date permit issued 09/10/13 Date drilling commenced 10/12/13 Date completion activities began 10/01/13 Date completion activities completion activities can be seen 10/11/13 Date completion activities can 10/11/13 Date can 10/11/14	pe of Report
Top hole Northing N/A Easting N/A Easting N/A N/A Easting N/A Easting N/A N/A N/A Easting N/A Easting N/A Easting N/A Easting N/A Easting N/A	pe of Report
Landing Point of Curve Northing N/A	pe of Report
Elevation (ft) 974' GL Type of Well New Existing Ty Permit Type Deviated Horizontal Horizontal 6A Vertical De Type of Operation Convert Deepen Drill Plug Back Redrilling Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Type of Completion Single Multiple Fluids Produced Brine Gas NO Drilled with Cable Rotary Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Production hole Air Mud Fresh Water Brine Mud Type(s) and Additive(s) Date permit issued 09/10/13 Date drilling commenced 10/12/13 Date completion activities began 10/01/13 Date completion activities of	pe of Report
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Well Type	Mining Storage Other
Type of Completion	iL Boil other
Drilled with □ Cable ■ Rotary Drilling Media Surface hole ■ Air □ Mud □ Fresh Water □ Intermediate hole ■ Production hole ■ Air □ Mud □ Fresh Water □ Brine Mud Type(s) and Additive(s) Date permit issued ○ 09/10/13 □ Date drilling commenced ○ 10/12/13 □ Date completion activities began ○ 10/01/13 □ Date completion activities completed	
Production hole Air Mud Fresh Water Brine Mud Type(s) and Additive(s) Date permit issued 09/10/13 Date drilling commenced 10/12/13 Date completion activities began 10/01/13 Date completion activities completion	
Date completion activities began Date completion activities activitie	Air Dividd Driesn Water DBrine
Date completion activities began 10/01/13 Date completion activities activi	Date drilling ceased12/03/13
Date completion activities began	40/00/40
Verbal plugging (Y/N) N/A Date permission granted 10/01/13 Gra	nted by Douglas Newlon
Please note: Operator is required to submit a plugging application within 5 days of verbal po	ermission to plug
Freshwater depth(s) ft 75' Open mine(s) (Y/N) depths	N.
Salt water depth(s) ft 1280' Void(s) encountered (Y/N) d	garante de la
Coal depth(s) ft N/A Cavern(s) encountered (Y/N)	
Is coal being mined in area (Y/N) N	epths N
	epths N

WR-35 Rev. 8/23/13 _Well number_T. Maxwell #11 Farm name_I. L. Morris API 47-017 06344 Casing **CASING** Hole New or Grade Basket Did cement circulate (Y/N) **STRINGS** Used wt/ft Size Size Depth Depth(s) * Provide details below* Conductor 20" 13-3/8" 38 **NEW** J-55 N/A N Surface Coal N/A Intermediate 1 12-1/4" 9-5/8" 168 NEW J-55 N/A Υ Intermediate 2 8-3/4" 7" 1097 **NEW** J-55 N/A Υ Intermediate 3 Production 4-1/2" 6-1/2" 2639 NEW J-55 N/A Ν Tubing Packer type and depth set Comment Details **CEMENT** Class/Type Number Slurry Yield Volume Cement WOC of Sacks (ft ³/sks) (U_3) Top (MD) DATA of Cement wt (ppg) (hrs) Conductor N/A N/A Surface Coal Intermediate 1 **CLASS A** 70 15.6 1.13 **CTS** 8 hrs. Intermediate 2 CLASS A 140 15.6 1.23 CTS 8 hrs. Intermediate 3 Production **CBL POZ** 13.5 1.53 ETOC 1000' 150 Tubing Drillers TD (ft) 2730° Loggers TD (ft) 2721' Deepest formation penetrated GORDON 2470' Plug back to (ft) __ Plug back procedure Kick off depth (ft) N/A 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 DETAILS Perfs H. SC. WAS WELL COMPLETED AS SHOT HOLE ■ Yes □ No PERFS HSC **DETAILS** WAS WELL COMPLETED OPEN HOLE? 🗆 Yes 💄 No

TYPE OF TRACER(S) USED _

WERE TRACERS USED □ Yes ■ No

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API 47- 017 _ 06344 Farm name I. L. Morris Well number T. Maxwell #11

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/09/13	2240	2470	20	GANTZ/GORDON
2	12/09/13	2034	2117	25	WEIR
3	12/09/13	1857	1876	18	INJUN
4	12/09/13	1814	1824	20	KEENER
5	12/09/13	1744	1764	20	BLUE MONDAY

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage	Stimulations	Ave Pump	Ave Treatment	Max Breakdown	vain (nav)	Amount of	Amount of	Amount of
No.	Date	Rate (BPM)	Pressure (PSI)	Pressure (PSI)	ISIP (PSI)	Proppant (lbs)	Water (bbls)	Nitrogen/other (units)
1	12/09/13	28	2360	2519	2190	20,000	129	193,000
2	12/09/13	25	3335	2820	2100	500	56	125,000
3	12/09/13	27	2600	2700	2330	20,000	131	202,000
4	12/09/13	24	3014	2370	2800	8,000	84	165,000
5	12/09/13	21	2990	3450	2040	12,000	120	210,000
								225
			-					

Please insert additional pages as applicable.

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API 47- 017	06344	name_I. L. Mor	Well number_T. Maxwell #11							
PRODUCING I	FORMATION(S	<u>s)</u>	DEPTHS							
GORDON			2470	TVD			MD			
WEIR			2110							
INJUN			1870							
KEENER			1819	_						
	ditional magaza	annliaghla	-	_	-					
	ditional pages as									
GAS TEST	□ Build up □	Drawdown	■ Open Flow		OIL T	EST A	Flow	Pump		
SHUT-IN PRE	SSURE Surfa	ace 2040	psi Botto	m Hole 2	840	psi	DURAT	ION O	F TES	T 36 hrs
OPEN FLOW	Gas 822 mcfj	Oil od 3	bpd 0	bpd	Wate 0	r bpd	GAS M □ Estin	IEASU nated	RED E ■ Ori	BY fice □ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTO DEPTH II MD	NFT D					D QUANTITYAND NE, OIL, GAS, H₂S, ETC)
	0		0							
H20	H20 75			78		FRESH				
SALT WATER	1280	1285			SALT WATER					
BIG LIME	1756	1855			LIME SAND, OIL AND GAS					
INJUN	1840		1880							
WEIR GANTZ	2030 2240		2120 2250		SAND AND GAS SAND AND GAS					
GORDON	2460		2470				SAND			AND GAS
00110011										2,1,12
								_		
Please insert ad	ditional pages a	s applicable.								
Drilling Contro	ctor NEXUS DR	ILLING CORI	5							
Address INDUS	TRIAL PARK		City	JANE LE	W		State	WV	Zin	26378
		a state of the last	- FASU.							
Logging Comp	any WEATHERF	ORD INTER		MECTO	.,			1007	ú.,	26452
Address 603 U	S HIGHWAY 19 N		City	WESTO	N		State	WV	_ Zip	26452
Cementing Cor	npany UNIVERS	SAL WELL SE	RVICE							
Address 5 HALL	. RUN ROAD		City	BUCKHA	NON		State	WV	Zip	26201
Stimulating Co	mnany UNIVE	RSAL								
Address 5 HALL	inpung		City	BUCKHA	NON		State	WV	Zip	26201
	ditional pages a	s applicable.								
Completed by	JAN CHAPMAN	ı			т	elephone	(304) 26	9-7102	75	
Signature	bu/1	7	Title P	RESIDENT	_ '	Siephone		Date 0		
- British	7	1						_		

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API: 47-017-06344 Farm Name: I.L. Morris Well number: T. Maxwell #11

ADDITIONAL PAGE FOR PRODUCING FORMATIONS

PRODUCING FORMATIONS

DEPTHS

Blue Monday

1754 TVD

MD

