

WELL SUMMARY

ODNR DIVISION OF OIL & GAS RESOURCES MANAGEMENT

API Well Number	34117242220000	Permit Issued	7/18/2013
Well Name	E DUMBAUGH (SWIW # 64)	Acres	20
Well No.	1	Date Commenced	12/9/2010
Owner	HOUGHTON INVESTMENTS LLC	Well No.	
		Date Completed	1/8/2011
Logging Co.	Appalachian Well Surveys, Clermont Natural Gas Company	Core No.	
		Sample No.	
County	MORROW	Township	GILEAD
		Quadrangle	MOUNT GILEAD
		Zone	N
Section	13	Lot	
		Tract	
		Twp. Qtr.	
Measured	720'NL & 853'WL OF NE QTR., SEC. 13 (S)		
		Surface X	1912773
		Y	311571
		Bottom X	
		Y	
		Surface Lon	-82.813740
		Lat	40.521450
		Bottom Lon	
		Lat	
		Surface X	1881303
		Y	311598
		Bottom X	
		Y	
		Prop TD	3415
		Class	SWIW
		Tool	SERV
GL	1175	DF	KB
	1181	LTD	3415
	DTD	3415	PB Depth
		Date PB	
TD Form.	TREMPEALEAU FORMATION		
		Prod. Form.	
		Status	Active Injection
IP Natural	IP AT		
		Initial Rock Pressure	
		Date Abandoned	
Perforations	PI: 3344-3350, Date: 1/17/2010, # Shots: 19PI: 3308-3318, Date: 1/17/2010, # Shots: 30		
Stimulations	Date: 1/25/2011, SI: 3344-3350, Fmtn Cd: 371020, Stim In: CS, Type: H2O, Vol: 2550 Gal, Acid%: 15, MBP: 305, MISIP: 550, 5SIP: 180Date: 1/19/2011, SI: 3308-3318, Fmtn Cd: 371020, Stim In: CS, Type: ACID, Vol: 500 Bbl, Acid%: 15, MBP: 450		
Casing Record	CND* 9.62 0-231-0, Comment: 0, Sks: 98 SRF* 7 0-1585-0, Comment: 0, Sks: 204 T1 2.325 0-3258-0, Comment: 0 PROD 4.5 0-3408-0, Comment: 0, Sks: 150		
Log Types	Amplitude-Variable Density Log, Casing collar locator/Gamma ray, Perforating Depth Control, Perforating, Mud Log, sample log		

Formations

Formation	Top	Bottom	Source	Prod.	Non-Standard	Remarks
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Annual Production

Year	Quarter	Source	Oil	Gas	Water	Remarks
2011	N/A	RBDMS	0	0	2125	