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

API <u>47</u>	County	District			
Quad	Pad Name	Field/Pool Name			
Farm name		Well Number			
Operator (as registered with the	ne OOG)				
Address	City	State	Zip		
As Drilled location NAD 8: Top ho Landing Point of Cu Bottom Ho	ole Northing	Easting			
Elevation (ft)	_ GL Type of Well □New □	Existing Type of Report	□Interim □Final		
Permit Type	□ Horizontal □ Horizontal 6A	□ Vertical Depth Type	□ Deep □ Shallow		
Type of Operation □ Conver	t □ Deepen □ Drill □ Plug Ba	ck □ Redrilling □ Rework	□ Stimulate		
Well Type □ Brine Disposal	□ CBM □ Gas □ Oil □ Secondary R	ecovery Solution Mining St	orage Other		
Type of Completion □ Single Drilled with □ Cable □ R	e □ Multiple Fluids Produced □ B	rine □Gas □ NGL □ Oil	□ Other		
_	Mud □ Fresh Water □ Brine	Intermediate hole □ Air □ Mud	d □ Fresh Water □ Brine		
Date permit issued	Date drilling commenced_	Date drilling	ceased		
Date completion activities beg	gan Date c	ompletion activities ceased			
Verbal plugging (Y/N)	Date permission granted	Granted by			
Please note: Operator is requi	ired to submit a plugging application with	nin 5 days of verbal permission to p	plug		
Freshwater depth(s) ft	Open m	ine(s) (Y/N) depths			
Salt water depth(s) ft	Void(s)	encountered (Y/N) depths			
Coal depth(s) ft	Cavern	(s) encountered (Y/N) depths			
Is coal being mined in area (Y	7/N)		Reviewed by:		

WR-35 Rev. 8/23/13

Casing New or Grade New or Condector Strike Size Size Depth Used with Depth(s) * Provide details below* Condector Surface Su	API 47		Farm name		Well number					
Surface			•					, , ,		
Coal Intermediate 2 Intermediate 3 Intermediate 3 Intermediate 3 Intermediate 3 Intermediate 3 Intermediate 3 Intermediate 4 Intermediate 5 Intermediate 5 Intermediate 6 Intermediate 6 Intermediate 6 Intermediate 7 Intermediate 7 Intermediate 8 Intermediate 8 Intermediate 8 Intermediate 9 Intermediate 9 Intermediate 8 Intermediate 1 Intermediate 1 Intermediate 1 Intermediate 1 Intermediate 2 Intermediate 2 Intermediate 3 Intermediate 3 Intermediate 3 Intermediate 8 Intermediate 8 Intermediate 9 I	Conductor									
Intermediate 1	Surface									
Intermediate 2 Intermediate 3 Production Tobing Production Production Production Production Production Production Of Cement USEsts State	Coal									
Intermediate 3										
Production	Intermediate 2									
Tubing Packer type and depth set Comment Details CEMENT Class/Type Number of Sakrs wit (ppg) Yield Volume Cement WOC OdaTA of Cement of Sakrs wit (ppg) (ft **/868) (ft **/2 ** 100 (Mir.) ** 100 (M										
Comment Details										
CEMENT Class/Type Number of Saltry Yield Volume Cement WOC DATA of Cement of Saltry wit (ppg) (ft 3/slss) (ft 3) Top (MD) (ft s) Surface Coal Coal Coal Coal Coal Coal Coal Coal										
CEMENT Class/Type Number of Sacks wit (ppg) (ft */sks)	Packer type and de	epth set								
DATA Of Cement Of Sacks wt (ppg) (ft 3/sks) (ft 4) Top (MD) (hrs)	Comment Details									
Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Drillers TD (ft) Deepest formation penetrated Plug back to (ft) Plug back procedure Kick off depth (ft) Check all wireline logs run caliper neutron resistivity gamma ray deviated/directional neutron resistivity gamma ray deviated/directional lenduction neutron Residual Were cuttings collected Yes No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS	DATA									
Coal Intermediate 1 Intermediate 2 Intermediate 3 Intermediate 2 Intermediate 3 Intermediate 2 Intermediate 3 Intermediate 4 I										
Intermediate 1										
Intermediate 2 Intermediate 3 Interm										
Intermediate 3										
Production Tubing Drillers TD (ft) Deepest formation penetrated Plug back to (ft) Plug back procedure Kick off depth (ft) Check all wireline logs run caliper										
Tubing										
Drillers TD (ft) Loggers TD (ft) Plug back to (ft) Plug back procedure deviated/directional induction linduction lemperature sonic Check all wireline logs run caliper density deviated/directional induction lemperature sonic Well cored Yes No Conventional Sidewall Were cuttings collected Yes No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS										
Check all wireline logs run	Deepest forma	tion penetrated _		Pl						
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 Was Well Completed as Shot Hole Yes No Details Was Well Completed Open Hole? Yes No Details	•	, , , , , , , , , , , , , , , , , , , ,	a colimon	- donaitr	– dovioto d/dimoot	ionol — indu	action			
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE										
WAS WELL COMPLETED AS SHOT HOLE	Well cored □ Yes □ No □ Conventional □ Sidewall Were cuttings collected □ Yes □ No									
WAS WELL COMPLETED OPEN HOLE? Property No DETAILS	DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING									
WAS WELL COMPLETED OPEN HOLE? Property No DETAILS										
WAS WELL COMPLETED OPEN HOLE? Property No DETAILS										
	WAS WELL O	COMPLETED A	S SHOT HOLE	□ Yes □ No	DETAILS					
WEDE TRACERS USED - Vac - Na TYPE OF TRACERS USED	WAS WELL O	COMPLETED O	PEN HOLE?	Yes □ No	DETAILS _					
-33/1/111/1111 $-3/1/11$		EDG MGES			NED (0) LIGER					

API 47	Farm name	Well number
7 M T 17	1 driii ndine	vv en nameer

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.

Please insert additional pages as applicable. Completed by _____ Telephone _____ Signature _____ Title ____ Date ____

Cementing Company _____

Stimulating Company _____

_____ City _____ State ____ Zip ____