Well Operator's Report of Well Work



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VVPI	1 1/1/11	mner

API: 47 - -

Submission: Initial Amended

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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 _					
Quad	Pad Nam	e	Field/Pool Name			
Farm name_			Well Number			
Operator (as a	registered with the OOG)					
Address	(City	State	Zip		
As Drilled loo	Top hole Northing ding Point of Curve Northing	Ea	asting			
	Bottom Hole Northing	Ea	sung			
Elevation (ft) GL Type o	of Well New Existing	Type of Report	□Interim □Final		
Permit Type	□ Deviated □ Horizontal □	Horizontal 6A	Depth Type	□ Deep □ Shallow		
Type of Oper	ration Convert Deepen Deepen	rill □ Plug Back □ Red	rilling Rework	□ Stimulate		
Well Type	☐ Brine Disposal ☐ CBM ☐ Gas ☐ O	il □ Secondary Recovery □	Solution Mining	orage 🗆 Other		
Drilled with Drilling Med	pletion	Fresh Water Intermediate		□ Other		
Mud Type(s)	and Additive(s)					
Date permit i	ssued Date drill	ing commenced	Date drilling	ceased		
Date complet	ion activities began	Date completion ac	ctivities ceased			
Verbal plugg	ing (Y/N) Date permission	on granted	Granted by			
Please note:	Operator is required to submit a plugging	ng application within 5 days of	verbal permission to p	lug		
Freshwater de	epth(s) ft	Open mine(s) (Y/N) d	epths	·		
Salt water de	pth(s) ft	Void(s) encountered	d (Y/N) depths			
Coal depth(s)) ft	Cavern(s) encounter	red (Y/N) depths			
Is coal being	mined in area (Y/N)			Reviewed by:		

WR-35 Page ___ of ___ Rev. 8/23/13 API 47- ____ - ____ Farm name____ Well number___ **CASING** Hole Casing Depth New or Grade Basket Did cement circulate (Y/N) **STRINGS** (GL) Used wt/ft Depth(s) (GL) * Provide details below* Size Size Conductor Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Packer type and depth set Comment Details WOC CEMENT Class/Type Number Slurry Yield Volume Cement of Cement (ft 3/sks) $(ft^{\frac{3}{2}})$ DATA of Sacks wt (ppg) Top (GL) (hrs) Conductor Surface Coal Intermediate 1 Intermediate 2 Intermediate 3 Production Tubing Drillers TD (ft) _ Loggers TD (ft) ___ Deepest formation penetrated _____ Plug back to (ft) _____ Plug back procedure _____ Kick off depth (ft)_____ Check all wireline logs run □ deviated/directional □ caliper □ density □ induction \square neutron □ resistivity □ gamma ray \Box 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 _____

TYPE OF TRACER(S) USED _____

WERE TRACERS USED □ Yes □ No

API 47	Farm name_	Well number
	·	

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.

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API 47			_ Farm	Farm name			Well number				
PRODUCING I	FORMATI	(ON(S)	_	DEPTH		_ TVD 			MD		
Please insert ad	ditional pa	ges as ap	– - plicable.								
GAS TEST	□ Build up	o □ Dra	ıwdown	□ Open	Flow		OIL	TEST 🗆	Flow □ Pu	ımp	
SHUT-IN PRES	SSURE	Surface _		_psi	Botto	m Hole		psi	DURATIO	N OF TEST _	hrs
OPEN FLOW	Gas	mcfpd	Oil	opd _		bpd				ASURED BY ed \square Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME T	FT DE	BOTTOM PTH IN FT TVD	TC DEPTH M	IN FT	BOTTOM DEPTH IN MD	FT			AND RECORD QU.	ANTITYAND IL, GAS, H ₂ S, ETC)
Please insert ad Drilling Contract Address	ctor								State	Zip	
Logging Compa Address									State	Zip	
					City				State	Zip	
Address									State	Zip	
Please insert ad Completed by Signature	_	ges as ap		<u>اړه</u>	Title		,	Telephone	Da	te	

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API 47	Farm name	Well number_	
Drilling Contractor			
Address	City	State	Zip
Logging Company			
	City	State	Zip
Logging Company			
Address	City	State	Zip
Drilling Contractor			
Address	City	State	Zip