

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	POCAHONTA	S LAND CORP.	Operator Well	No.: HD	H-2	
Location:	Elevation:	1,957.0	Quadrangle:	Pineville		
	District: Latitude: Longitude:	CENTER 6,000 Feet South 1,340 Feet West	County: of 37 Deg. 32 of 81 Deg. 30	WYOMING Min. 30 Sec. Min. 00 Sec.	i	
Company:	U.S. STEEL M P.O. Box 338 Pineville, WV 24874-0338	IINING CO.		т		
Agent: J. A. Zu			Casing &Tubing	Used in Drilling	Left in Well	Cement Fill up
Inspector: Office Permit Issued: Well work com Well work com	12/23/92 menced: <u>(sec</u> pleted:	e note below)	8-5/8"		700'	244 ft³
Verbal plugging permission gra Rotary Total depth (ft) Fresh water de Salt water dept Is coal being m Coal depths (ft)	nted on: Cable 700 pths (ft) hs (ft) nined in the are:	a (Y/N)? Y -700				
OPEN FLOW (DATA					,
Produc Gas: Static r	ing formation _ Initial open flow Final open flow Time of open frock pressure	Pocahontas No. 3 Sea w n/a Mcf/d w Mcf/d flow between initial and psig (surface	Pay zo Oil: final tests:	one depth (ft) initial open Final open h	700 flow flow ours	Bbl/d Bbl/d
Secon Gas:	d Producing for Initial open flo Final open flow	rmationMcf/d wMcf/d wMcf/d flow between initial and psig (surface	Pay zo	one depth (ft) Initial open Final open	flow	
Note: ON BA FRACTURING DETAILED GE WELLBORE.	ACK OF THIS F OR STIMULATI EOLOGICAL RE	FORM, PUT THE FOLI ING, PHYSICAL CHANG ECORD OF ALL FORM	LOWING: 1) DE SE, ETC. 2) THE MATIONS, INCLU	TAILS OF P E WELL LOG JDING COAI	ERFORATE WHICH IS _ ENCOUN	ED INTERVALS, A SYSTEMATIC TERED BY THE
Note: This well borehole. The b of this permit.	I is permitted a porehole was dri	is a CBM vent well. Ti lied under DEP Permit N	he casing previo lo. U-204-83 (NP	ously served DES WV009	as a coal n 90000) prior	nine de-watering r to the issuance
		For: By: Date:	U.S. Steel Mir Joseph A. Zu February 13,	panick	<i>ن</i> دار	

Operator:

HDH-2

API:

47-109-1301

Location:

SBR

Details of Perforated Intervals, Fracturing or Stimulation, Physical Change, Etc.

CBM vent hole located at Sulfur Branch air shaft. No stimulation performed.

Well Log & Geologic Record

Formation	Тор	Bottom
Sand & Shale	0	134
Shale	134	171
Sand & Shale	171	265
Coal	265	269
Sand & Shale	269	410
Quartz	410	527
Sand & Shale	527	693
Mine Void	693	700

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Emilanmenral Morris	·	ST	ATE OF WES	T VIRGINIA		Page 3 of 6
Environm 2 5 0	DEPAR	TMENT OF WELL	ENERGY, D	IVISION OF	OIL AND GAS	Expures 12/23/94
T) L Me 191 OF	gerator:	. Ц.	S. Steel Mi	90 ning Co., Inc	50510	(3) 548
2) Operat	or's Well	. Number:_	HDH-2		3)	Elevation: 1957
			or Ga			
	(b)	If Gas:	Productio Des	on_X/ Underg	ground Stor Shal	age/ low <u>x</u> /
5) Propose	ed Target	Formatio	n(s): <u> </u>	998 ocahontas No.	3 Seam	
•			700'	•		
		•		ths: <u>None</u>		
			epths:N		-	
						Bottom El. 1257)
10) Does la	nd contai	in coal se	eams tribu	tary to act	ive mine?	Yes <u>X</u> / No/
11) Propose will be a	d Well Wo	ork: Exist	ing Borehole	Access (to a	n underground	l mine area which
12)						ommercialization.
TYPE	c			ING PROGRAM		
	<u>s</u>	PECIFICAT	IONS	FOOTAGE I	NTERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						(cu. 1c.)
Fresh Water						,
Coal					GAL	Stry
<u>Intermediate</u>					U	
Production	8" Steel	Casing			700 '	244 ft.3
Fubing	0		,			21
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PACKERS : Kin		-				· · · · · · · · · · · · · · · · · · ·
	es ths set _					
13/39	Fo	r Divisor	of Oil a	nd Gas Use	Only	
Fee(s) p	aid: 1_	_ Well Wo	rk Permit	Recla	amation Fun	d _ WPCP
Plat				bno		_ l_l Agent
				<u> </u>	Type)	

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	(87)	KOV 2 5	,-		HD:	H-2	
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		-ksice of Oil	•			beate county	Fermi C
		Ollins	20100				
			STATE OF				
		DEPARTMEN	IT OF ENERGY	, DIVIS	ION OF	OIL AND GAS	
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		,					
4)			be served:		(a) C	oal Operator:	
	(a) Name	Pocahonta	s Land Corp.				Co Inc
	Address	800 Pring	eton Avenue			U. S. Steel Mining Box 338	CO, THE.
	wagress -	OUU PITIIC	eton Avenue	Ad	aress .	BOX 338	
		Bluefield	. WV 24701	<u> </u>		Pineville, WV 24	874
	(b) Name			·(b) Coal	Owner(s) with De	claration
	Address			No.			
					····=	Focanonicas Land Co	rp.
				Ad	dress .	Pocahontas Land Co 800 Princeton Aven	ue
	(c) Name					Bluefield, WV 24	701
	Address			Na:			
_	-		***		dress		
				Au	aress -		
٠.					<u> </u>		
6)		Rodney Di		(c) Coal	Lessee with Decl	aration
	Address	P.O. Box	1526	Nar	me	USX Corporation	
	_	Sophia, W	7 25021				
	malanhana	(204)	83-3989	Au	Tress -	P.O. Box 5686	
	rerebuoue	: (304) - 6 8	83-3989			Princeton, WV 24	740
							
		TO THE PER	SON(S) NAME		TAKE N	NOTICE THAT:	
		TO THE PER	SON(S) NAME		TAKE N	NOTICE THAT:	
	•111			D ABOVE			
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U.S. Steel Mining Co., Inc. P.O. Box 338 Pineville, WV 24874



Dated: November 23, 1992

Theodore M. Streit
Chief-Office Oil & Gas
10 McJunkin Rd
Nitro, West Virginia 25143

109-1301

ATTN:

Jamie Stevens

RE: Oil & Gas Permit Application

U. S. Steel Mining Co., Inc. (USM) Coal Seam Gas Ventilation Borehole

Borehole No. HDH-2

Dear Mr. Streit:

Included herewith is an application for permitting a currently operating coal seam gas vertical vent borehole. We are requesting the assistance of your department in completing an expeditious review of the application in order that any comments or concerns regarding the permitting can be addressed, and permit approval received, prior to December 31, 1992. As you are aware, West Virginia does not currently have regulations applicable to coal seam gas production. We, therefore, need special assistance and consideration for approval of this application.

The vertical borehole is a necessary part of our coal mine operations and is used to transport coal seam gas produced in our underground mine work area to the surface for venting. The coal seam gas must be removed prior to mining in order to maintain safe working conditions in the mine area and mitigate exorbitant mine ventilation costs.

The vertical borehole is currently operating and is permitted under the West Virginia Division of Environmental Protection, inclusive of site access roads.

USM is in the process of finalizing an agreement with a West Virginia gas production company for commercializing production of the currently vented and wasted coal seam gas. In order to make the commercial project economically feasible it is

necessary that the coal seam gas production from any vertical boreholes qualify for federal tax credits under Section 29 of the Federal Revenue Code. Qualification procedures must be completed by December 31, 1992 to take advantage of the federal credits. Once qualified, the tax credits are allowed on all production from a borehole through year 2002.

The vertical borehole was drilled and cased from the surface to the underground work area of the mine. The borehole casing extends into the mine work area and is connected to an underground pipe network which collects coal seam gas produced from the coal prior to mining. The vertical borehole contains only casing and no "production pipe" as would be installed in a natural gas well. The borehole is only used to transport the coal seam gas to the surface area for venting. The gas in the vertically cased borehole should never exceed about 2 psi pressure or 10" Hg vacum. We, therefore, do not anticipate any problems with a single casing for this special application.

Additionally, since the borehole is existing and provides continuous degasification of our mine operations, we cannot shut the system down to make modifications to the borehole (ie, add a production pipe). A shutdown would impact on our longwall mining operations and be very costly. We do plan to add a production pipe to vertical boreholes which are installed for future coal seam gas venting. However, there may be areas where a single casing is the most practical for our mining and degas procedures and, at that time, we would seek special approval from the Oil & Gas Board.

Commercial coal seam gas production would be beneficial to USM and West Virginia. We have spent over two years trying to complete a commercial project for this area. We need your departments assistance in completing the permitting process prior to December 31, 1992. Please contact me at 412-223-5554 at the earliest opportunity if there are any questions regarding the application or our coal seam degasification methods or procedures.

Sincerely,

Larry King

Attachments

c.c. Michael Lewis w/o Att.