

Farm name:

HDH-4

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

Well Operator's Report of Well Work

Operator Well No.:

POCAHONTAS LAND CORP.

Location:	Elevation:	1,660.30	Quadrangle:	Pineville		•
	District: Latitude: Longitude:	CENTER 2,810 Feet South 11,860 Feet West	County: of 37 Deg. 32 of 81 Deg. 30	Min. 30 Sec.		
Company:	U.S. STEEL M P.O. Box 338 Pineville, WV 24874-0338	INING CO.		··		
Agent: J. A. Zu		Casing &Tubing	Used in Drilling	Left in Well	Cement Fill up	
Well work com Verbal plugging permission gra Rotary Total depth (ft) Fresh water de	12/23/92 menced:	Rig	8-5/8"		740'	258 ft ³
Is coal being m	ins (π) nined in the area	a (Y/N)? <u>Y</u> 3-686, 736-740		<u> </u>		
OPEN FLOW	DATA					
Produc Gas: Static r	ing formation _ Initial open flow Final open flow Time of open f ock pressure _	Pocahontas No. 3 Sea w n/a Mcf/d v Mcf/d low between initial and psig (surface	m Pay zo Oil: I final tests: pressure) after	one depth (ft) Initial open Final open	740 flow flow hours hours	Bbl/d Bbl/d
	time of open t	mationMcf/d wMcf/d vMcf/d low between initial andpsig (surface	i finai tests:		flowflowhours	Bbl/d Bbl/d
FRACTURING SYSTEMATIC	OR STIMULA	ORM, PUT THE FOLL ATING, PHYSICAL CI GEOLOGICAL RECO ELLBORE.	HANGE, ÉTC.	2) THE \	NELL LOG	WHICH IS A
18 ft. diamete	r coal mine ver	s a CBM vent well. The ntilation shaft. The sh 000) prior to the issuar	naft was constru	icted under l	in the concr DEP Permit	ete wall of an No. U-204-83
		For:	U.S. Steel Mig	ning)Co.,)Inc.		
		By: Date:	Joseph A. Zur February 13,			

Operator:

HDH-4

API: Location: 47-109-1303 S-Fork

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

CBM Vent Hole located at S-Fork Air Shaft. No stimulation performed.

Well Log & Geologic Record

Formation	Тор	Bottom
Sand	0	107
Sand & Shale	107	195
Sand	195	228
Sand & Shale	228	263
Sand	263	370
Sand & Shale	370	468
Sand	468	569
Quartz	569	575
Sand	575	623
Sand & Shale	623	673
Coal	673	675
Shale	675	683
Coal	683	686
Sand & Shale	686	736
Coal	736	740

109-1303 sound 123/92

|__| Agent

Expuse 12/23/94 Environmental Projection STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION 50510 (3) 548 Operator's Well Number: HDH-4 3) Elevation: 1660,3 • 4) Well type: (a) 0il__/ or Gas X / If Gas: Production X / Underground Storage __/ (b) Deep__/ Shallow X/ Proposed Target Formation(s): Pocahontas No. 3 Seam 5) Proposed Total Depth: 740 feet 6) Approximate fresh water strata depths: None 7) Approximate salt water depths: None 8) Approximate coal seam depths: Poca No. 3 Seam 740' (Est. Bottom El. 920) 9) Does land contain coal seams tributary to active mine? Yes X / No ___/ 10) Proposed Well Work: Existing Borehole Access (to an underground mine area) which 11) will be used to transport gas collected from seam to surface for commercialization. 121 CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT Weight For Left in Fill-up Size Grade per ft. drilling well (cu. ft.) Conductor Fresh Water Coal <u>Intermediate</u> Production 8" Steel dasing 7401 258 ft.3 Tubing Liners PACKERS : Kind Sizes Depths set For Divison of Oil and Gas Use Only Fee(s) paid: | | | Well Work Permit | | | Reclamation Fund | | | WPCP

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Page	1 of				Y 1 40 400	
Form	WW2-A	Euryconne y 1 35	-		November 18, 1992	
	87)	Estiliante in a		-	's well number HDH-4	
	Сору		•	APT Well	No: 47 - <u>047</u> - <u>1303</u>	<u>.</u>
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		OKINGS	STATE OF V	EST VIRGINIA		
		DEPARTMEN	IT OF ENERGY,	DIVISION OF	OIL AND GAS	
		· NOTICE AN	ID ADDITOAMIC			
		NOTICE AN	ID APPLICATIO	N FUR A WELL	WORK PERMIT	
4)	Surface	Owner(s) to	be served:	5) (a) C	Coal Operator:	
	(a) Name	Pocahontas	Land Corp.		U. S. Steel Mining Co., Inc.	
	Address	800 Princet	on Avenue	Address	_Box 338	
		Bluefield,	WV 24701		Pineville, WV 24874	_
	(b) Name			_ (b) Coal	Owner(s) with Declaratio	n
	Address	<u></u>			Pocahontas Land Corp.	_
	(a) Name				800 Princeton Avenue	
- 1					Bluefield, WV 24701	
f	Address			Name Address	•	
				_ Address		_
6)	Inspecto	Rodney D	illon	(c) Coal	Lessee with Declaration	
	Address	P.O. Box	1526		USX Corporation	
		Sophia,			P.O. Box 5686	
	Telephon	e (304)- <u>6</u>	83-3989		Princeton, WV 24740	
				•		
		TO THE PER	SON(S) NAMED	ABOVE TAKE	NOTICE THAT:	
	Included					
Contr	acts by v	is the lea which I hold	se or leases d the right	or other con	ntinuing contract or	
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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

109-1303

ATTN:

Jamie Stevens

RE: Oil & Gas Permit Application

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

Borehole No. HDH-4

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 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,

Attachments

c.c. Michael Lewis w/o Att.