





# State of West Virginia Division of Environmental Protection Section of Oil & Gas

Reviewed.

Well Operator's Report of Well Work						
Ope	rator Well	No: 8	HI-2			
Qua	drangle:	PINEVILI	E			
County:	WYON	IING				
South of 37 [ West of 81 [	Deg. 32 Mi Deg. 32 Mi	in. 30 Sec in. 30 Sec	REC	EIVED		
			Office o	f Oil & Gas mitting		
	· • • •		NOV_(	3 1999		
	r		WV D	vision of tal Protection		
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up			
133/8"	35,40'	35.40'	9			
95/8"	363.75'	363.75'	114			
7"	1067'	1067'	160			
Producting formation Poca No. 3 Seam and Penn Coals Pay zone depth (ft)  Gas: Initial open flow N/A Mcf/d Oil: Initial open flow Bbl/d Final open flow N/A Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests: hours  Static rock pressure psig (surface pressure) after hours						
Second Producing formation Pay zone depth (ft)  Gas: Initial open flow N/A Mcf/d Oil: Initial open flow Bbl/d Final open flow N/A Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests: hours						
Note: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATICK DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.						
For:	CDX G	as, LAC	•	<u> </u>		
	Casing & Tubing Size  13%"  95%"  7"  Penn Coals  final tests:ce pressure)  tial and final ce pressure)  WING: 1) DE ETC. 2) THE FIONS, INCLUSIONS	Operator Well Quadrangle:  County: WYOM South of 37 Deg. 32 M West of 81 Deg. 32 M  Casing & Used in Drilling Size  13%" 35.40'  95%" 363.75'  7" 1067'  Penn Coals Pay zor Oil: final tests: ce pressure) after Pay zor Oil: tial and final tests: ce pressure) after  Pay zor Oil: tial and final tests: ce pressure) after  Pay Zor Oil: tial and final tests: ce pressure) after  Pay Zor Oil: tial and final tests: ce pressure) after  OWING: 1) DETAILS OF ETC. 2) THE WELL LOTIONS, INCLUDING CO	Quadrangle: PINEVILI  County: WYOMING  South of 37 Deg. 32 Min. 30 Sec  West of 81 Deg. 32 Min. 30 Sec  West of 81 Deg. 32 Min. 30 Sec  I 33/4" 35.40' 35.40'  95/6" 363.75' 363.75'  7" 1067' 1067'  Penn Coals Pay zone depth ( Oil: Initial operation operati	Operator Well No: 8HI-2  Quadrangle: PINEVILLE  County: WYOMING  South of 37 Deg. 32 Min. 30 Sec. West of 81 Deg. 32 Min. 30 Sec. West of 81 Deg. 32 Min. 30 Sec.  Casing & Used in Drilling Well up  Casing & Tubing Drilling Well up  Size  13%'' 35.40' 35.40' 9  9%'' 363.75' 363.75' 114  7" 1067' 1067' 160  IPenn Coals Pay zone depth (ft) Oil: Initial open flow Final open flow Hours  OWING: 1) DETAILS OF PERFORATED INTER ETC. 2) THE WELL LOG WHICH IS A SYSTEM FIONS, INCLUDING COAL ENCOUNTERED BY		

Operator: 8HI-2 API No. 47-109-01774 C Location: Pineville

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

### Well Log & Geologic Record

Formation	Тор	Bottom
Sandy Shale	0	167
Shale	167	222
Sandy Shale	222	302
Shale	302	303
Coal	303	305
Shale	305	314
Sandy Shale	314	339
Shale	339	343
Coal	343	345
Shale	345	357
Sandy Shale	357	426
Shale	426	437
Sandy Shale	437	468
Shale	468	572
Sandy Shale	572	579
Shale	579	609
Sandy Shale	609	622
Shale	622	628
Sandy Shale	628	664
Shale	664	744
Coal	744	747
Shale	747	753
Sandy Shale	753	778
Shale	778	793
Sandy Shale	793	821
Shale	821	830
Sandy Shale	830	852
Sandstone	852	935
Sandy Shale	935	941
Sandstone	941	951
Sandy Shale	951	986
Coal	986	991
Shale	991	1002
Sandy Shale	1002	1042
Coal & 3	1042	1045
Shale	1045	1048
Sandy Shale	1048	1100.70

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API#47-109-01774 C

## State of West Virginia Division of Environmental Protection Section of Oil & Gas

Reviewed

	WA Environs	Protection of Protection	W	ell Operator's Rep	ort of Well	Work	•	
Fa	rm nam	e: U.S. 8	Steel Mining C	ompany, LLC	Ope	rator Well	No: 8	HI-2a
Lo	cation:	Elevation:	1,953.37		Qua	drangle:	PINEVILI	LE .
		District:	CENTER	C	County:	WYOM	IING	
			Latitude: Longitude:	3750 Feet So 5490 Feet W	outh of 37 [ est of 81 [	Deg. 32 Mi Deg. 32 Mi	n. 30 Sec n. 30 Sec	). :.
Co	mpany:		LLC ne Road, Suite ( 75240-0000	≥ 280				
Αg	ent: Jos	seph A. Zur	panic					
	pector:	OFIE HELI	MICK 11/04/98	;	Casing	Used in	Left in	Cement Fill

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up
13%"	42.25'	42.25'	11
95⁄a"	387.81'	387.81'	121
7"	922.35'	922.34'	139

#### **OPEN FLOW DATA**

Well Work commenced: Well Work completed: Verbal plugging

Permission granted on:

Rotary \_\_x Cable \_\_\_\_ Rig
Total depth (ft) \_\_\_ 933.20
Fresh water depths (ft) \_\_\_ N/A
Salt water depths (ft) \_\_\_ N/A
Is coal being mined in the area (Y/N)?
Coal depths (ft): 324', 364', 765'

Ga	as: Initia Final Time	ormation Pocal open flow N// open flow N// of open flow be ressure	A Mcf/d A Mcf/d etween initial	and final te	sts:	Oil:	Initial op Final ope I	en flow	E	Bbl/d Bbl/d
Ga	is:	ucing formation Initial open fl Final open flo Time of oper essure	ow <u>N/A</u> Mo ow <u>N/A</u> Mo of flow betwee	cf/d en initial and	l final te	Oil: ests:	one depth Initial ope Final ope	en flow _ en flow		Bbl/d Bbl/d
rkau i uki	GEOLOG	F THIS FORM, IMULATING, PH ICAL RECORD	YSICAL CHAN	NGE ETC.	2) THE	WELL	LOC WHIC	O A OLH:	ZCTEN.	
					For:	срх с	Gas, LLC	<del></del>		1

Date:

Operator: 8HI-2a API No. 47-109-01774 C Location: Pineville

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

#### Well Log & Geologic Record

Formation	Тор	Bottom
Sandy Shale	0	188
Shale	188	243
Sandy Shale	243	323
Shale	323	323
Coal	323	.1
Shale	. I	326
	326	335
Sandy Shale	335	360
Shale	360	364
Coal	364	366
Shale	366	378
Sandy Shale	378	447
Shale	447	458
Sandy Shale	458	589
Shale	589	593
Sandy Shale	593	600
Shale	600	630
Sandy Shale	630	643
Shale	643	649
Sandy Shale	649	685
Shale	685	765
Coal	765	768
Shale	768	774
Sandy Shale	774	799
Shale	799	814
Sandy Shale	814	842
Shale	842	851
Sandy Shale	851	873
Sandstone	873	933.20
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