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Bruce Ranner, Governor

Wayne A. Rosenthal, Director

## Operator Memorandum 2017-01

To: All Coal Mine Operators/Consultants Market

From: Scott K. Fowler, Supervisor

Land Reclamation Division

Date: January 19, 2017

Borehole and Groundwater Monitoring Well Completion Diagrams/Boring Logs Re:

The regulations at 62 Ill. Adm. Code 1780.22(b)(2)(A) and 1784.22(b)(2)(A) require geologic information from test borings, drill cores, etc. to be logged to depict the lithologic characteristics including physical properties and thickness of each stratum and the location of groundwater, where occurring.

The regulations at 62 Ill. Adm. Code 1816/1817.13 require exploration holes, other drill or boreholes, wells or other exposed underground openings be cased, lined or otherwise managed, as approved by the Department. The permit application requires completion information and a diagram of each such opening. Finally, 62 Ill. Adm. Code 1777.11(a)(3), requires information to be submitted in a format stipulated by the Department.

In order for the Department to properly track the installation of boreholes and groundwater monitoring wells, a Well Completion Report has been developed for your use. For every borehole or groundwater monitoring well installed within permitted boundaries, a Well Completion Report, accompanied by the appropriate boring or corehole log, shall be completed. The Land Reclamation Division will no longer accept borehole completion forms from the Office of Oil and Gas Resource Management, hand-drawn completion diagrams or completion reports that do not contain the minimum information on the attached form.

As a reminder, Operator Memorandum 2015-02 addressed the proper plugging and sealing of boreholes and groundwater monitoring wells. The Department developed Plugging Affidavit Form is available on our website.



## Office of Mines and Minerals

One Natural Resources Way Land Reclamation Division Springfield, Illinois 62702-1271

Office Use Only:	
Tech:	
GIS:	

## WELL COMPLETION REPORT

ATURAL											
TURAL SOURCES	Permittee:	:					Mine:				
	Permit No	No. IPR/IBR No.					No County:	•			
La	atitude:	(De		_	itude: grees)		Well / Borehole ID Purpose:				
Surveyed By:	:						IL Registration #:				
Drilling Cont							Driller:				
Consulting Fi	irm:						Geologist:				
Drilling Meth	nod:						Drilling Fluid (type):				
Logged By:							Dates: Start Fin	nish:			
Form Comple	eted By:			***************************************			Date Completed:				
ANNULAR S	PACE DETA	ILS	en indenstand	eneralente est		, 20222022	Elevs. / Depths (msl*) (bgs)	(.01 ft.)			
						***************************************		Top of Protective Casing			
Type of Surface	e Seal:				N-			Top of Riser Pipe Ground Surface			
Гуре of Annula Installation M								Top of Annular Sealant			
mountain in		Granular	Pelle	Slurry	:	1		Static Water level (after Completion)			
Bentonite Seal Installation M	lethod:					NAMES OF THE OWNERS OF THE OWN	The control of the co	Top of Seal			
Allottation 17						Ŋ		Top of Sand Pack			
							5 ( <del>3.36)</del>	Top of Screen			
Гуре of Sand P Grain Size <i>(Si</i>						s baineis ne de est de des de de des esta de est	The state of the s	Bottom of Screen			
Installation M	ethod:						LaserOccessications(p)	Bottom of Well			
Type of Backfil	ll Material:					overend variant	*Referenced to a National	Bottom of Borehole			
Installation M	ethod:			***************************************							
Well Constru Material	ction	SS304	SS316	PTFE	PVC	Other*	Casing Measurements: Diameter of Borehole (inches) ID of Riser Pipe (inches) Protective Casing Length (feet Riser Pipe Length (feet)	)			
Protection Casi Riser Pipe Abo Riser Pipe Belo	ve W.T.						Bottom of Screen to End Cap (feet) Screen Length (1 <sup>st</sup> slot to last slot – feet) Total Length of Casing (feet)				
						Screen Slot Size **  **Hand-Slotted Well Screens	are Unacceptable.				