





Form	ACO1 - Well Completion
Operator	Natural Gas Pipeline Company of America LLC
Well Name	NGPL AMA 419 4
Doc ID	1587782

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	14	10.75	9.1	20	Bentonite	15	N/A

Two Eight Drilling Log  
Kinder Morgan Pipeline AMA-419  
SW of Haddam, KS

Location: 39.814197, -97.3130525  
Date: 6/5/2021

<u>Lithology</u>			<u>Hole Diameter</u>		
From	To	Description	From	To	
0	10	Topsoil	0'	20'	16"
10	30	Shale	20'	250'	9.625
30	80	Sandstone with clay lenses			
80	250	Shale, grey			
			<u>Casing</u>		
			From	To	
			0'	20'	10" SDR 21 PVC

<u>Grout/Seal</u>		
From	To	
0'	20'	Hole Plug

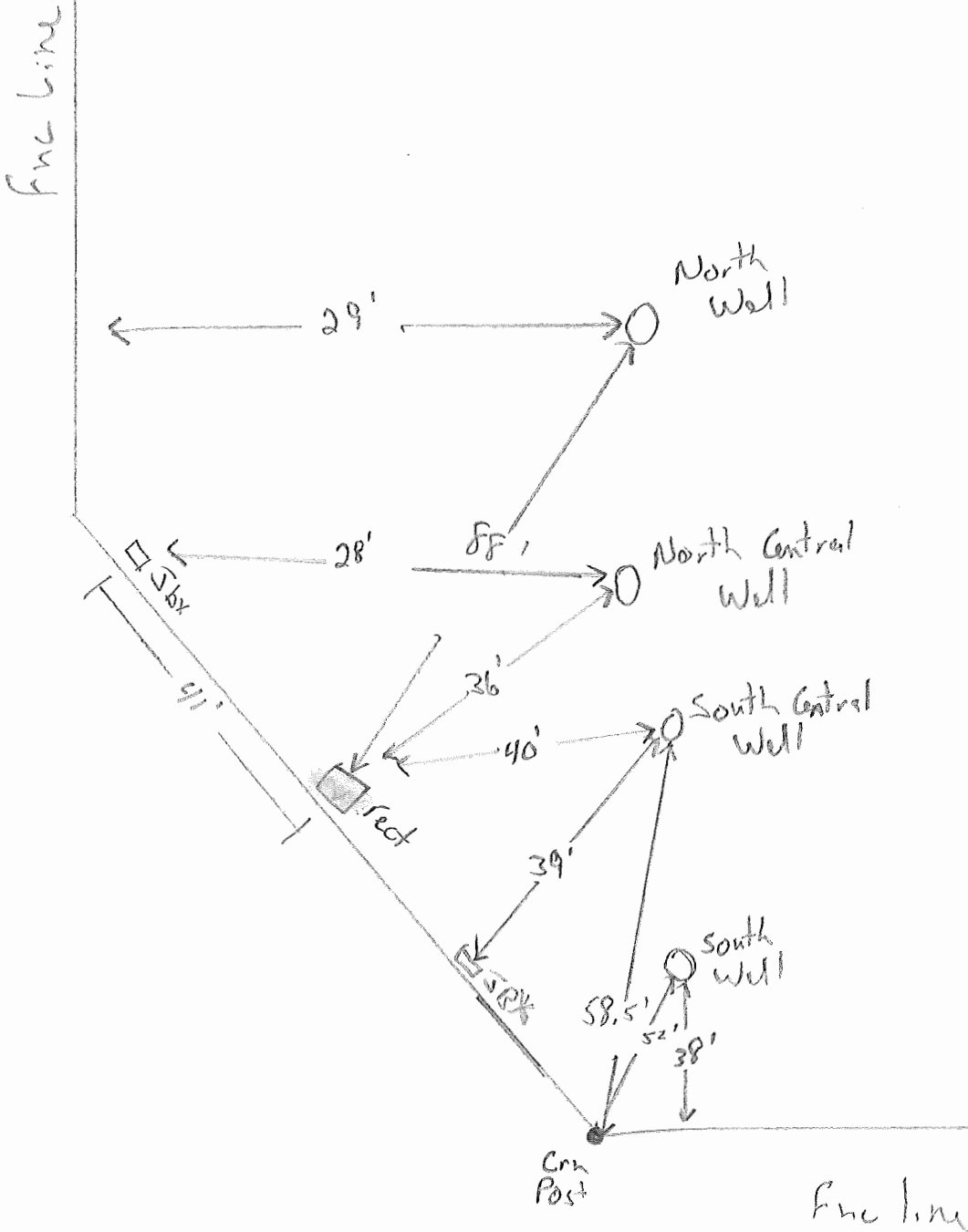
Four holes to 250' at this location.

Driller: Jeremy Edgmon  
Rig: T3W  
Method: Mud Rotary/PDC

Kinder Morgan  
4 - 10"x250' w/13 anodes each well  
AMA 419  
Haddam, KS - Washington County



Deep Wells Installed by:  
Energy Economics, Inc.  
Date: 06-05-21



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