



WSP USA, Inc.
 405 East 19th Avenue
 Suite A2
 North Kansas City, MO 64116
 TEL: +1 816 421 7766

GEOLOGIC LOG

WELL NO.: MW-5

OWNER: Magellan Ammonia Pipeline, L.P.
LOCATION: MP 68, Harper County, Kansas
DRILLING CO.: BGS
OBSERVATION METHOD: Cuttings
DRILLING METHOD: Hollow Stem Auger

OBSERVER: B. Bailey
DATE COMPLETED: February 23, 2018
TOTAL DEPTH OF HOLE: 30 feet below ground surface
STATIC WATER LEVEL: 27.56 ft bTOC (2-23-18)

DEPTH IN FBG	WELL CONSTRUCTION	GRAPHIC	LITHOLOGIC DESCRIPTION	FROM	TO	SAMPLE TYPE	DEPTH IN FBG
0	Stick-up						0
0	Concrete Grout		Pre-clear for underground utilities by vacuum excavation with air knife assistance as needed.	0	5	C	0
-5	PDS Bentonite Plug		SILT AND CLAY: red-brown.	5	10	C	-5
-10	2" ID Sch 40 PVC		CLAY WITH SILT: red-brown.	10	15	C	-10
-15				15	20	C	-15
-20			@ 20 fbg, soft.	20	25	C	-20
-25	2" ID Sch 40 PVC Slotted 0.010"						
-25	Sand Filter Pack		CLAY: red-brown; little silt; trace fine sand.	25	30	C	-25
-30							-30

NOTES: ft bTOC = feet below top of casing ppm = parts per million C = cuttings FBG = feet below grade