WATER WELL RI			on of Water		Wall ID /MW 3					
Original Record			rces App. No. Well ID							
1 LOCATION OF WA	ATER WELL: Fraction NE 4NW4NE	NAL Section	on Number	Township Number						
County: Harper			**************************************	T 34 S	R 5 □EXIW					
2 WELL OWNER: La	st Name: Street or Rural Address where well is located (if unknown, distance and									
Address: One William	direction from nearest town or intersection): If at owner's address, check here:									
Address: Offe vvillar	and Johnson	Mile Post 68 r	iear Bluff Ci	ty, KS						
City: Tulsa	State: OK ZIP: 74172									
3 LOCATE WELL	4 DEPTH OF COMPLETED WELL:	30 A	5 T -4/4 3	37 ARION	(decimal degrees)					
WITH "X" IN	Depth(s) Groundwater Encountered: 1)	20 A	5 Latitude	-07 asi	(decimal degrees) (decimal degrees)					
SECTION BOX:	2) ft. 3) ft., or 4)		Longitud	ie: Wwcc.c.	(decimal degrees)					
N	WELL'S STATIC WATER LEVEL:				□ NAD 83 □ NAD 27					
X	below land surface, measured on (mo-da		Source 10	r Latitude/Longitude: (unit make/model:	armin etrek					
NW NE	above land surface, measured on (mo-da		GFS	(WAAS enabled?	Yes \square No)					
1 1	Pump test data: Well water was	ft.	☐ Land	Survey Topograp	phic Map					
W E	after hours pumping	gpm	Onlin	ne Mapper:						
SW SE	Well water was	. ft.		• •						
SK SE	after hours pumping		6 Elevatio	n 1305 ₽	■ Ground Level □ TOC					
	Estimated Yield:gpm Bore Hole Diameter:8.5in. to30	Α οπ -	Source: F	Land Survey 🔳 G	PS Topographic Map					
S mile	Bore Hole Diameter:	π. and			rs 🗀 Topograpine Map					
7 WELL WATER TO		16.								
1. Domestic:	5. Public Water Supply: well ID.		10 🗆 Oil F	eld Water Supply: Jen	se					
☐ Household	6. Dewatering: how many wells?			e: well ID						
Lawn & Garden	7. Aquifer Recharge: well ID			d ☐ Uncased ☐ G						
Livestock	7. ☐ Aquifer Recharge: well ID8. ☐ Monitoring: well ID	MW- 3		nal: how many bores?						
2. Irrigation	9. Environmental Remediation: well			ed Loop 🔲 Horizonta						
3. Feedlot	☐ Air Sparge ☐ Soil Vapo	r Extraction			charge 🔲 Inj. of Water					
4. 🔲 Industrial	☐ Recovery ☐ Injection		13. 🗌 Other	(specify):						
Was a chemical/bacter	riological sample submitted to KDHE?	☐ Yes ■ No	If yes, date sa	ample was submitted	:					
Water well disinfected?										
8 TYPE OF CASING	USED: ☐ Steel ■ PVC ☐ Other	CASIN	G JOINTS: [Glued Clamped	☐ Welded ☐ Threaded					
Casing diameter 2 in to 20 ft. Diameter in to ft. Diameter in to ft.										
Casing height above land surface										
l .	R PERFORATION MATERIAL:									
	nless Steel			(Specify)						
		e used (open hole)								
1	ATION OPENINGS ARE:	Tamala Carlo Ta	:11-477-1	7 Oth (010.)						
Continuous Slot				Other (Specify)	•••••					
			one (Open Hole		- ft - a					
SCREEN-PERFORATED INTERVALS: From										
Grout Intervals: Even	AL: Neat cement Cement grout ft., From	ft to	ft From	ft to	- ft					
Nearest source of possible		11. 10	u., riom	It. W	It.					
Septic Tank	Lateral Lines ☐ Pit Privy	, n	Livestock Pens	☐ Insectic	ide Storage					
Sewer Lines	☐ Cess Pool ☐ Sewage	_	Fuel Storage		ned Water Well					
☐ Watertight Sewer Lin	nes Seepage Pit Feedyard	d □ F	Fertilizer Stora							
☐ Other (Specify)				_						
	Distance from									
10 FROM TO	LITHOLOGIC LOG	FROM	TO L	ITHO. LOG (cont.) or	PLUGGING INTERVALS					
				<u> </u>						
				· · · · · · · · · · · · · · · · · · ·						
		Notes:								
44 605			<i>\</i>							
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, \Box reconstructed, or \Box plugged										
under my jurisdiction and was completed on (mo-day-year) 2/23/20.18 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 7.10										
under the business name of Below Ground Surface. Inc.										
under the business name of Below Ground Surface, Inc. Mail I white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Envisonment, Bureau of Water, GWTS Section,										
1000 SW Jackson S	St., Suite 420, Topeka, Kansas 66612-1367. Mail one	to Water Well Own	er and retain one	for your records. Teleph	one 785-296-5524.					
Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 7/10/2										



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

GEOLOGIC LOG

WELL NO.: MW-3

Page 1 of 1

OWNER: LOCATION: Magellan Ammonia Pipeline, L.P.

MP 68, Harper County, Kansas

DRILLING CO.: BGS OBSERVATION METHOD: Cuttings

DRILLING METHOD:

Hollow Stem Auger

OBSERVER:

B. Bailey

DATE COMPLETED: February 22, 2018

TOTAL DEPTH OF HOLE:

30 feet below ground surface

STATIC WATER LEVEL: 27.91 ft bTOC (2-23-18)

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

NOTES: ft bTOC = feet below top of casing

ppm = parts per million

C = cuttings

FBG = feet below grade