WATER WELL R			ion of Water	1 MN 5	
Original Record			rces App. No.	Well ID	
1 LOCATION OF W	ATER WELL: Fraction	NAL Section	on Number	Township Number Range Number	
County: Harper NE 4NW 4NE 4NW 21 T 34 S R 5 DE XW					
2 WELL OWNER: Last Name: First: Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:					
Address One Market				· · · · · · · · · · · · · · · · · · ·	
Address:					
City: Tulsa	State: OK ZIP: 74172				
3 LOCATE WELL	4 DEPTH OF COMPLETED WELL:	30 ft	5 Latituda	. 37.08140	
WITH "X" IN	Depth(s) Groundwater Encountered: 1)	O A	Latitude	37. 08140 (decimal degrees) de: -97. 852116 (decimal degrees)	
SECTION BOX:	2) ft. 3) ft., or 4)		Longitud	decimal degrees) I Datum: WGS 84 □ NAD 83 □ NAD 27	
N	WELL'S STATIC WATER LEVEL:	ft.		r Latitude/Longitude:	
X	below land surface, measured on (mo-day		Source 10	r <u>Latitude/Longitude:</u> (unit make/model: . Garmin etrek	
NW NE	above land surface, measured on (mo-day		GI S	(WAAS enabled? X Yes □ No)	
	Pump test data: Well water was	ft.	☐ Land	(WAAS enabled? XYes ☐ No) Survey ☐ Topographic Map	
W	after hours pumping	. gpm	Onlin	ne Mapper:	
SW SE	Well water was	ft.			
	after hours pumping	0.	6 Elevatio	n: 1305ft. 🔳 Ground Level 🗖 TOC	
S	Estimated Yield:gpm Bore Hole Diameter:8.5 in. to30	ft and	Source: F	☐ Land Survey ☐ GPS ☐ Topographic Map	
mile	in. to	ft.		Other	
7 WELL WATER TO BE USED AS:					
1. Domestic:	5. □ Public Water Supply: well ID		10. □ Oil F	ield Water Supply: lease	
Household	Dewatering: how many wells?			e: well ID	
☐ Lawn & Garden	7. ☐ Aquifer Recharge: well ID 8. ■ Monitoring: well ID			d ☐ Uncased ☐ Geotechnical	
☐ Livestock			Geothern	nal: how many bores?	
2. Irrigation	9. Environmental Remediation: well I			d Loop Horizontal Vertical	
3. ☐ Feedlot	☐ Air Sparge ☐ Soil Vapor	Extraction	b) Open	Loop Surface Discharge Inj. of Water	
4. 🗌 Industrial	☐ Recovery ☐ Injection			(specify):	
Was a chemical/bacteriological sample submitted to KDHE? ☐ Yes ■ No If yes, date sample was submitted:					
Water well disinfected? ☐ Yes ■ No					
8 TYPE OF CASING USED: ☐ Steel ☐ PVC ☐ Other					
Casing diameter	in. to ft., Diameter	in. to	ft., Diamete	er ft.	
Casing diameter 2 in to 2 ft., Diameter in to ft., Diameter in to ft. Diameter in to ft. Casing height above land surface 30 in. Weight lbs./ft. Wall thickness or gauge No. Sch 40					
TYPE OF SCREEN OR PERFORATION MATERIAL: □ Steel □ Stainless Steel □ PVC □ Other (Specify)					
		used (open hole)		(Specify)	
☐ Brass ☐ Galvanized Steel ☐ Concrete tile ☐ None used (open hole) SCREEN OR PERFORATION OPENINGS ARE:					
☐ Continuous Slot ☐ Mill Slot ☐ Gauze Wrapped ☐ Torch Cut ☐ Drilled Holes ☐ Other (Specify)					
□ Louvered Shutter □ Key Punched □ Wire Wrapped □ Saw Cut □ None (Open Hole)					
SCREEN-PERFORATED INTERVALS: From					
GRAVEL PACK INTERVALS: From					
9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other					
9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other					
Nearest source of possible contamination:					
☐ Septic Tank	☐ Lateral Lines ☐ Pit Privy		Livestock Pens	_	
Sewer Lines	☐ Cess Pool ☐ Sewage L		uel Storage	☐ Abandoned Water Well	
☐ Watertight Sewer Lines ☐ Seepage Pit ☐ Feedyard ☐ Fertilizer Storage ☐ Oil Well/Gas Well					
☐ Other (Specify)					
10 FROM TO	LITHOLOGIC LOG	FROM		ITHO. LOG (cont.) or PLUGGING INTERVALS	
IV TROM	ETHIOLOGIC LOG	PROM	10 L	THO. LOG (coll.) of PLOGGING INTERVALS	
		Notes:			
110005					
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was a constructed, reconstructed, or plugged					
under my jurisdiction and was completed on (mo-day-year) 2/23/20.18 and this record is true to the bestrof my knowledge and belief					
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 nam	ne of Balow Ground Surface, Inc.	Sig	nature/٨	au /C offew	
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 Environment, Bureau of Water, GWTS Section,					
1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524.					
	Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 7/10/2015				



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

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

MP 68, Harper County, Kansas

DRILLING CO.: BGS OBSERVATION METHOD: Cuttings

OBSERVER:

DATE COMPLETED:

TOTAL DEPTH OF HOLE: STATIC WATER LEVEL:

B. Bailey

February 23, 2018

30 feet below ground surface

27.56 ft bTOC (2-23-18)

DRILLING METHOD: Hollow Stem Auger GRAPHIC SAMPLE TYPE DEPTH IN FBG FROM 70 LITHOLOGIC DESCRIPTION WELL CONSTRUCTION Stick-up C 0 Pre-clear for underground utilities by vacuum Concrete Grout excavation with air knife assistance as needed. -5 -5 5 10 C SILT AND CLAY: red-brown. PDS Bentonite Plug -10 10 2" ID Sch 40 PVC C 10 15 CLAY WITH SILT: red-brown. -15 15 20 C -20 20 20 25 C @ 20 fbg, soft. 2" ID Sch 40 PVC Slotted 0.010" -25 25 C 25 30 CLAY: red-brown; little silt; trace fine sand. Sand Filter Pack -30

NOTES: ft bTOC = feet below top of casing

ppm = parts per million

C = cuttings FBG = feet below grade