

WATER WELL RECORD Form WWC-5

Original Record Correction Change in Well Use

Division of Water Resources App. No.

Well ID

MW 4

1 LOCATION OF WATER WELL: County: Harper Fraction SE 1/4 SE 1/4 NE 1/4 NE 1/4 Section Number 20 Township Number T 33 S Range Number R 5 E W

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: Magellan Midstream Partners One Williams Center Mile Post 62.5 (N 90th Ave. and N 10th Road) near Freeport, KS west side of N. 90th Ave. City: Tulsa State: OK ZIP: 74172

3 LOCATE WELL WITH "X" IN SECTION BOX: N W E S 1 mile

4 DEPTH OF COMPLETED WELL: 22.5 ft. Depth(s) Groundwater Encountered: 1) 20 ft. 2) ft. 3) ft. or 4) Dry Well WELL'S STATIC WATER LEVEL: ft. below land surface, measured on (mo-day-yr) above land surface, measured on (mo-day-yr) Pump test data: Well water was ft. after hours pumping gpm Well water was ft. after hours pumping gpm Estimated Yield: gpm Bore Hole Diameter: 8.5 in. to 25 ft. and in. to ft.

5 Latitude: 37.16516 (decimal degrees) Longitude: -97.8749 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model: Garmin etrek (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper:

6 Elevation: 1300 ft. Ground Level TOC Source: Land Survey GPS Topographic Map Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 2. Public Water Supply: well ID Dewatering: how many wells? Aquifer Recharge: well ID Monitoring: well ID MW-4 Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Recovery Injection Oil Field Water Supply: lease Test Hole: well ID Cased Uncased Geotechnical Geothermal: how many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water Other (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 JOINTS: Glued Clamped Welded Threaded Casing diameter 2 in. to 12.5 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 Fiberglass PVC Other (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 12.5 ft. to 22.5 ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From 10.5 ft. to 22.5 ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Grout Intervals: From 2 ft. to 10.5 ft., From ft. to ft., From ft. to ft.

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify)

Direction from well? Distance from well? ft.

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Includes a Notes section.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 2/21/2018 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo-day-year) 3/1/2018 under the business name of Below Ground Surface, Inc. Signature



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GEOLOGIC LOG

WELL NO.: MW-4

OWNER: Magellan Ammonia Pipeline, L.P.
LOCATION: MP 62.5, Harper County, Kansas
DRILLING CO.: BGS
OBSERVATION METHOD: Cuttings
DRILLING METHOD: Hollow Stem Auger

OBSERVER: B. Bailey
DATE COMPLETED: February 21, 2018
TOTAL DEPTH OF HOLE: 22.5 feet below ground surface
STATIC WATER LEVEL: 21.56 ft bTOC (2-23-18)

DEPTH IN FBG	WELL CONSTRUCTION	GRAPHIC	LITHOLOGIC DESCRIPTION	FROM	TO	SAMPLE TYPE	DEPTH IN FBG
0	Stick-up						
0	Concrete Grout		Pre-clear for underground utilities by vacuum excavation with air knife assistance as needed.	0	3.5	C	0
-5	PDS Bentonite Plug		SHALE: red-brown, weathered.	3.5	5	C	-5
-5			SILT AND CLAY: dark red; trace weathered shale.	5	10	C	-5
-10	2" ID Sch 40 PVC		SILT: tan, stiff.	10	12.5	C	-10
-10			@ 12.5 fbg, red-brown; little weathered shale.	12.5	15	C	-10
-15	Sand Filter Pack		SHALE: gray-green, weathered.	15	17.5	C	-15
-15			@ 17.5 fbg, red-brown, weathered.	17.5	20	C	-15
-20	2" ID Sch 40 PVC Slotted 0.010"		@ 20 fbg, red-brown, weathered, moist.	20	22.5	C	-20
-20			Rig chatter, refusal.				-20

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