

WATER WELL RECORD Form WWC-5

Division of Water
Resources App. No.

MW-38

☒ Original Record ☐ Correction ☐ Change in Well Use

Well ID

1 LOCATION OF WATER WELL: County: <u>Butler</u>		Fraction <u>NW 1/4 NE 1/4 SE 1/4 NW 1/4</u>	Section Number <u>10</u>	Township Number <u>T 26 S</u>	Range Number <u>R 5 E W</u>															
2 WELL OWNER: Last Name: <u>NuStar Energy Operating Partnership LP</u> Business: <u>1624 Sunset Road</u> Address: <u>El Dorado</u> State: <u>KS</u> ZIP: <u>67042</u>			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: <input checked="" type="checkbox"/>																	
3 LOCATE WELL WITH "X" IN SECTION BOX: N <table border="1" style="width:100px; height:100px; text-align: center; margin: 10px auto;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td>-- NW</td><td>X</td><td>-- NE --</td></tr> <tr><td>W</td><td> </td><td>E</td></tr> <tr><td>-- SW --</td><td> </td><td>-- SE --</td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> S 1 mile					-- NW	X	-- NE --	W		E	-- SW --		-- SE --				4 DEPTH OF COMPLETED WELL: <u>13</u> ft. Depth(s) Groundwater Encountered: 1) <u> </u> ft. 2) <u> </u> ft. 3) <u> </u> ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: <u> </u> ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr)..... <input type="checkbox"/> above land surface, measured on (mo-day-yr)..... Pump test data: Well water was <u> </u> ft. after..... hours pumping gpm Well water was <u> </u> ft. after..... hours pumping gpm Estimated Yield: <u> </u> gpm Bore Hole Diameter: <u>8</u> in. to <u>13</u> ft. and in. to ft.		5 Latitude: <u>37.805503</u> (decimal degrees) Longitude: <u>-96.872993</u> (decimal degrees) Horizontal Datum: <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Online Mapper: <u>Google Earth</u>	
-- NW	X	-- NE --																		
W		E																		
-- SW --		-- SE --																		
6 Elevation:ft. <input type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other																				
7 WELL WATER TO BE USED AS: 1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock 2. <input type="checkbox"/> Irrigation 3. <input type="checkbox"/> Feedlot 4. <input type="checkbox"/> Industrial 5. <input type="checkbox"/> Public Water Supply: well ID 6. <input type="checkbox"/> Dewatering: how many wells? 7. <input type="checkbox"/> Aquifer Recharge: well ID 8. <input checked="" type="checkbox"/> Monitoring: well ID <u>MW-38</u> 9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection 10. <input type="checkbox"/> Oil Field Water Supply: lease 11. Test Hole: well ID <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12. Geothermal: how many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water 13. <input type="checkbox"/> Other (specify):																				
Was a chemical/bacteriological sample submitted to KDHE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, date sample was submitted:																				
Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																				
8 TYPE OF CASING USED: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other CASING JOINTS: <input type="checkbox"/> Glued <input type="checkbox"/> Clamped <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Threaded Casing diameter <u>2</u> in. to <u>3</u> ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface in. Weight lbs./ft. Wall thickness or gauge No. <u>Sch. 40</u> TYPE OF SCREEN OR PERFORATION MATERIAL: <input type="checkbox"/> Steel <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Fiberglass <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Brass <input type="checkbox"/> Galvanized Steel <input type="checkbox"/> Concrete tile <input type="checkbox"/> None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: <input type="checkbox"/> Continuous Slot <input checked="" type="checkbox"/> Mill Slot <input type="checkbox"/> Gauze Wrapped <input type="checkbox"/> Torch Cut <input type="checkbox"/> Drilled Holes <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Louvered Shutter <input type="checkbox"/> Key Punched <input type="checkbox"/> Wire Wrapped <input type="checkbox"/> Saw Cut <input type="checkbox"/> None (Open Hole) SCREEN-PERFORATED INTERVALS: From <u>3</u> ft. to <u>13</u> ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From <u>2</u> ft. to <u>13</u> ft., From ft. to ft., From ft. to ft.																				
9 GROUT MATERIAL: <input type="checkbox"/> Neat cement <input type="checkbox"/> Cement grout <input checked="" type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Concrete Grout Intervals: From <u>0</u> ft. to <u>1</u> ft., From <u>1</u> ft. to <u>2</u> ft., From ft. to ft. Nearest source of possible contamination: <input type="checkbox"/> Septic Tank <input type="checkbox"/> Lateral Lines <input type="checkbox"/> Pit Privy <input type="checkbox"/> Livestock Pens <input type="checkbox"/> Insecticide Storage <input type="checkbox"/> Sewer Lines <input type="checkbox"/> Cess Pool <input type="checkbox"/> Sewage Lagoon <input type="checkbox"/> Fuel Storage <input type="checkbox"/> Abandoned Water Well <input type="checkbox"/> Watertight Sewer Lines <input type="checkbox"/> Seepage Pit <input type="checkbox"/> Feedyard <input type="checkbox"/> Fertilizer Storage <input type="checkbox"/> Oil Well/Gas Well <input checked="" type="checkbox"/> Other (Specify) <u>Contaminated site</u> Direction from well? Distance from well? ft.																				
10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS															
0	2.5	No Recovery																		
2.5	5	Silt, fine, Tan to White																		
5	6.25	Silt, fine, Tannish Brown																		
6.25	6.5	Calcite, White																		
6.5	7.5	Clay, silty (f), Tannish Brown																		
7.5	10	Shale, clayey, Tan-Brown																		
10	11.5	Clay, Tannish Gray																		
11.5	11.75	Calcite/limestone lens																		
11.75	13	Clay, Tannish Gray																		
Notes:																				
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <input checked="" type="checkbox"/> constructed, <input type="checkbox"/> reconstructed, or <input type="checkbox"/> plugged under my jurisdiction and was completed on (mo-day-year) <u>9/26/2016</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>527</u> This Water Well Record was completed on (mo-day-year) <u>10/21/16</u> under the business name of <u>GeoCore Inc.</u> Signature <u>Dale Bell</u>																				
Mail 1 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																				



Google Earth

feet 1000
meters 400



NuStar Pipeline Operating Partnership L.P.

Facility address:

S. Haverhill & Sunset Roads, El Dorado

GPS Coordinates:

Replacement well MW-38: 37.805503, -96.872993

Plugged wells:

MW-24: 37.805141, -96.873192

MW-26: 37.805893, -96.873233

I-1: 37.803587, -96.872058

I-2: 37.803599, -96.872045

I-3: 37.803584, -96.872046

I-4: 37.803563, -96.872039

I-5: 37.803583, -96.872035

I-6: 37.803599, -96.872026

I-7: 37.803567, -96.872012

I-8: 37.803584, -96.872013

RECEIVED

JAN 24 2017

BUREAU OF WATER