

Cowley

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SURVEYING OF ADDITIONAL MONITORING WELLS(Revised)
COASTAL MART #9182
ARKANSAS CITY, KANSAS

The above site is located in Section 24, Township 34 South, Range 3 East of the Sixth Principal Meridian, Cowley County, Kansas. The Southeast corner of Section 24 was assigned coordinates of 00.00 North and 00.00 West, tying into the measurements of the original survey.

The control point established during the original survey had been destroyed. A new control point was established during this survey as a chiseled 'X' on the northeast corner of the concrete sign base at the southeast corner of the site, based on the top of casing elevations from the original survey.

The Latitude and Longitude were recorded from a GPS unit. The site is located on the 7.5' quad map titled "Arkansas City".

ID	NORTH	WEST	LATITUDE	LONGITUDE	ELEVATION
SE CORNER 24-34S-3E	00.00	00.00			
Control Point	4269.84	46.58	37.08257	97.04026	1088.88
MW-3R SE SE NE NE	4280.08	244.31	37.08261	97.04092	RIM 1087.94 TOC 1087.36
MW-8R SE SE NE NE	4103.67	56.29	37.08213	97.04029	RIM 1089.39 TOC 1088.76
MW-12(Sec 19) SW SW NW NW	4182.28	-43.56	37.08268	97.03993	RIM 1088.47 TOC 1087.96
MW-13(Sec 19) SW SW NW NW	4245.74	-226.34	37.08252	97.03937	RIM 1086.18 TOC 1085.59



WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

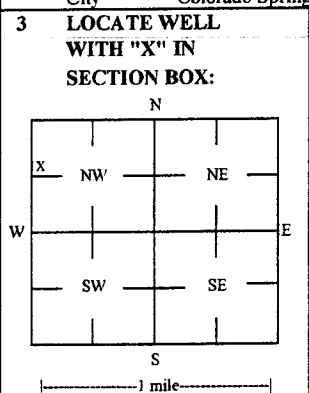
Well ID

MW13

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Cowley Fraction SW 1/4 NW 1/4 Section Number 19 Township Number T 34 S Range Number R 3 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: Business: El Paso Remediation Company Address: 2 North Nevada Ave. City Colorado Springs State: CO ZIP: 80903



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 18.63 ft Depth(s) Groundwater Encountered: 1) 18.63 ft 2) ft 3) ft or 4) Dry Well WELL'S STATIC WATER LEVEL: 11.73 ft

5 Latitude: 37.08252 (decimal degrees) Longitude: 97.03937 (decimal degrees) Horizontal Datum: X WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model): (WAAS enabled? Yes No) X Land Survey Topographic Map Online Mapper

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 MW13 Environmental Remediation: well ID Air Sparge Soil Vapor Extractor 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 X No If yes, date sample was submitted: Water well disinfected? Yes No X No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 8.63 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface 0.59 in. Weight lbs./ft. Well thickness or gauge No 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 X 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 8.63 ft. to 18.63 ft. GRAVEL PACK INTERVALS: From 8 ft. to 19.5 ft.

9 GROUT MATERIAL: Neat cement Cement grout X Bentonite X Other Concrete: 0-1' Grout intervals: From 1 ft. to 8 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 X Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well Other (Specify) Direction from well? NW Distance from well? ~300 ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include Topsoil, Dark brown silty clay, Medium brown silty clay, Reddish brown clay, Medium brown to gray clay, Medium brown to gray silty clay, Weathered limestone.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was X constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 10/29/15 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No 757 This Water Well Record was completed on (mo-day-year) 1/25/16 under the business name of Larsen & Associates, Inc. Signature