

WATER WELL RECORD

Form WWC-5

Division of Water

Resources App. No.

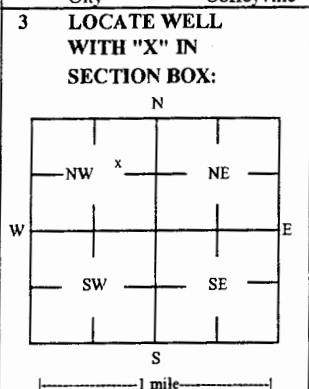
Well ID

MW3

[X] Original Record [ ] Correction [ ] Change in Well Use

1 LOCATION OF WATER WELL: County Montgomery Fraction SE 1/4 SW 1/4 NE 1/4 NW 1/4 Section Number I Township Number T 35 S Range Number R 16 [X] 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: Clough Oil Company Address: 202 E 11th City Coffeyville State: KS ZIP:



3 LOCATE WELL WITH "X" IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 15 ft Depth(s) Groundwater Encountered: 1) ft 2) ft 3) ft, or 4) [ ] Dry Well WELLS STATIC WATER LEVEL: 5.75 ft. [X] below land surface, measured on (mo-day-yr) 11/3/16 [ ] above land surface, measured on (mo-day-yr) Pump test data: Well water was ft after hours pumping gpm Water well was ft after hours pumping gpm Estimated Yield: gpm Bore Hole Diameter: 7.25 in to ft, and in to ft

5 Latitude: 37.03315 (decimal degrees) Longitude: -95.61357 (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

6 Elevation: 720.84 ft [ ] Ground Level [X] TOC Source: [X] Land Survey [ ] GPS [ ] Topographic Map [ ] Other

7 WELL WATER TO BE USED AS: 1 Domestic: [ ] Household [ ] Lawn & Garden [ ] Livestock [ ] Irrigation [ ] Feedlot [ ] Industrial 2 [ ] Public Water Supply: well ID 3 [ ] Dewatering: how many wells? 4 [ ] Aquifer Recharge: well ID 5 [X] Monitoring: well ID MW3 6 [ ] Environmental Remediation: well ID 7 [ ] Air Sparge [ ] Soil Vapor Extractor 8 [ ] Recovery [ ] Injection 9 [ ] Oil Field Water Supply: lease 10 [ ] Test Hole: well ID [ ] Cased [ ] Uncased [ ] Geotechnical 11 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 [X] No If yes, date sample was submitted: Water well disinfected? [ ] Yes [X] No

8 TYPE OF CASING USED: [ ] Steel [X] PVC [ ] Other CASING JOINTS: [ ] Glued [ ] Clamped [ ] Welded [X] Threaded Casing diameter 2 in. to 5 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.33 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: [ ] Steel [ ] Stainless Steel [ ] Fiberglass [X] 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 5 ft. to 15 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 3 ft. to 15.5 ft, From ft. to ft, From ft. to ft,

9 GROUT MATERIAL: [ ] Neat cement [ ] Cement grout [X] Bentonite [X] Other Concrete: 0-0.5' Grout intervals: From 0.5 ft. to 3 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? W Distance from well? ~60 ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include: 0-0.7 Concrete, 0.7-7.5 Silty clay, some gravel, 7.5-12 Crystalline cemented limestone w/ interbedded shale, 12-15.5 Siltstone.

Notes: KDHE ID: Clough Service: U3-063-14847 Target of monitoring well is shallow groundwater, <20' of grout was installed at the direction of KDHE.

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) 10/18/16 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) 1/9/17 under the business name of Larsen & Associates, Inc. Signature

# TRITERRA LAND SERVICES

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## SURVEYING OF MONITORING WELLS CLOUGH SERVICE COFFEYVILLE, KANSAS

The above site is in Section 1, Township 35 South, Range 16 East of the Sixth Principal Meridian, Montgomery County, Kansas. The Southeast corner of Section 1 was assigned coordinates of 00.00 North and 00.00 West.

The vertical control is an NGS benchmark described as a disk set in concrete located in the southwest corner of the courthouse yard, 27 feet southwest of the building and 3 feet north of the curb along the north side of the sidewalk. The control point was established as a chiseled 'X' on the elevated curb at the southwest corner of the building on site.

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

ID	NORTH	WEST	LATITUDE	LONGITUDE	ELEVATION
SE CORNER 1-35S-16E	00.00	00.00			
Control Point	4292.75	3459.19	37.03336	95.61385	720.77
MW-1 SE SW NE NW	4276.28	3415.48	37.03335	95.61367	RIM 720.49 TOC 720.16
MW-2 SE SW NE NW	4174.99	3483.03	37.03310	95.61391	RIM 721.32 TOC 721.04
MW-3 SE SW NE NW	4195.12	3370.77	37.03315	95.61357	RIM 721.17 TOC 720.84
MW-4 NE SW NE NW	4342.01	3483.21	37.03352	95.61391	RIM 722.27 TOC 722.00
MW-5 SE SW NE NW	4251.63	3303.37	37.03326	95.61333	RIM 717.32 TOC 716.92
MW-6 NW SE NE NW	4336.76	3298.86	37.03353	95.61330	RIM 718.86 TOC 718.43
MW-7 SE SW NE NW	4241.26	3474.64	37.03326	95.61391	RIM 719.09 TOC 718.86
MW-8 SE SW NE NW	4083.62	3312.04	37.03280	95.61335	RIM 718.75 TOC 718.45
MW-9 SW SE NE NW	4171.74	3193.51	37.03308	95.61301	RIM 719.48 TOC 719.25

