

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

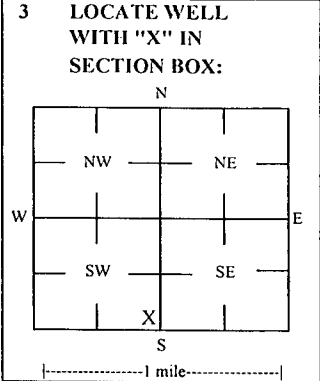
Well ID

MW10

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Kearny Fraction NE 1/4 SE 1/4 SE 1/4 SW 1/4 Section Number 22 Township Number T 24 S Range Number R 36 E W

2 WELL OWNER: Last Name: Business: KDHE Address: 1000 SW Jackson Blvd City Topeka State: KS ZIP: 66612 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): ~100' west of I 10 E. Santa Fe Trail Blvd., Lakin, KS



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 35 ft Depth(s) Groundwater Encountered: 1) ft 2) ft 3) ft, or 4) Dry Well WELL'S STATIC WATER LEVEL: 22.1 ft. below land surface, measured on (mo-day-yr) 2/26/20

5 Latitude: 37.94687 (decimal degrees) Longitude: 101.25828 (decimal degrees) Horizontal Datum: WGS 84 X NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model) Land Survey X Topographic Map Online Mapper

6 Elevation: 3007.22 ft Ground Level X TOC Source: Land Survey X GPS Topographic Map Other

7 WELL WATER TO BE USED AS: 1 Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 5 Public Water Supply: well ID 6 Dewatering: how many wells? 7 Aquifer Recharge: well ID 8 Monitoring: well ID MW10 9 Environmental Remediation: well ID Air Sparge Soil Vapor Extractor Recovery Injection 10 Oil Field Water Supply: lease 11 Test Hole: well ID Cased Uncased Geotechnical 12 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 If yes, date sample was submitted:

8 TYPE OF CASING USED: Steel PVC X Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 20 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.85 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC X Other (Specify) 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 20 ft. to 35 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 18 ft. to 35 ft, From ft. to ft, From ft. to ft,

9 GROUT MATERIAL: Neat cement Cement grout Bentonite X Other Concrete: 0-0.5' Grout intervals: From 0.5 ft. to 18 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? NE Distance from well? ~215 ft

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include: 0-0.5 Grass/topsoil, 0.5-5 Silty clay, 5-16 Silty clay, abundant silt, 16-19 Clayey sand, 19-32 Medium grained sand, 32-35 Clay

Notes: KDHE ID: Palmer Oil Co.; U1-047-15142 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) 2/25/20 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) 3/12/20 under the business name of Larsen & Associates, Inc. Signature

Kearny

22-24-26 W

# SMH CONSULTANTS

March 12, 2020

Larsen and Associates  
Jessica Chapman  
1311 East 25th Street, Suite B  
Lawrence, Kansas 66046  
Email: jess@larsenenvironmental.com

RE: Project No. 2002DG1048

Jessica.

The following is the information requested on a Monitoring Well Site, Palmer Oil Company, 110 East Santa Fe Trail Boulevard, Lakin, Kearny County, Kansas.

Point	North Coord.	East Coord.	Distance SE Cor. North	From S.26 West	Elev. Top Of Rim or PK Nail	Elev. Top of PVC Pipe	Latitude North	Longitude West
SE Corner S.26-T24S-R36W	40000	40000						
MW10	40633.49	37316.02	633.49	2683.98	3008.07	3007.22	37.94687	101.25828
SBM	40819.61	37675.48	819.61	2324.52		SBM Elevation = 3008.90		

BM Description: "□" Square cut in curb inlet at northeast of driveway.

MW10 is in the: NE¼ SE¼ SE¼ SW¼ S.22-T24S-R36W

If you have any questions, please do not hesitate in giving us a call.

Sincerely,



Tim Sloan, L.S.  
SMH CONSULTANTS

COLORADO SPRINGS  
411 South Tejon Street, Suite i  
Colorado Springs, CO 80903  
P: 719-465-2145

DODGE CITY  
707 3<sup>rd</sup> Avenue, Suite A  
Dodge City, KS 67801  
P: 620-255-1952

MANHATTAN - HO  
2017 Vanesta Place, Suite 110  
Manhattan, KS 66503  
P: 785-776-0541

OVERLAND PARK  
8101 College Blvd., Suite 100  
Overland Park, KS 66210  
P: 913-444-9615

NOTE: Figures exhibited within this report are only to be used within the context of this report. Placement of property lines, wells, structures, and roads is based on the available information from county appraiser maps, surveys, site visits, and/or previous vendor reports and should be considered approximate.

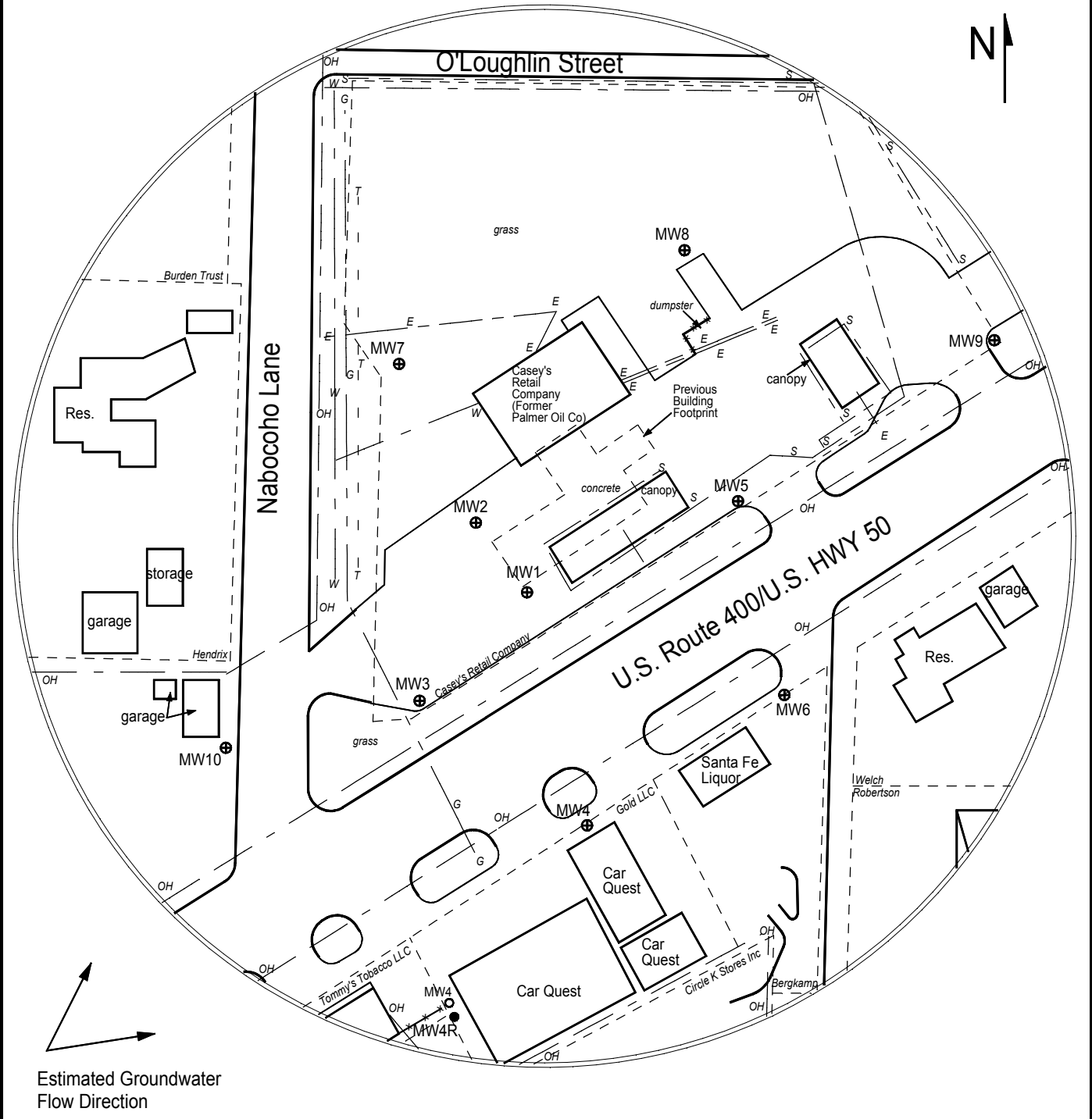


FIGURE 2.1 - 350 FT RADIUS AREA BASE MAP

**LEGEND:**

- Approximate Location of Active UST Basin, Product Lines & Pump Islands
- Area of Contamination
- Building with Basement
- Approximate Location of Property Line
- Existing Monitoring Well
- Monitoring Well (Installed 8/14-16/19)

- Electric Lines (1.5 - 3 ft bgs)
- Gas Lines (1.5 - 3 ft bgs)
- Overhead Lines (25-40 ft high)
- Sewer Lines (2 - 6 ft bgs)
- Telephone Lines (2 - 6 ft bgs)
- Water Lines (1.5 - 3 ft bgs)

NOTE: SB5 & SB6 were drilled to collect hydrologic samples.  
NOTE: Utility heights, depths and locations are approximate.



**PROJECT:**

Palmer Oil Co.  
110 E. Santa Fe Trail Blvd  
Lakin, KS  
KDHE ID: U1-047-15142  
Date: 8/20-21/19



1311 E 25th St. Suite B    785-841-8707 office  
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