



GEOLOGICAL REPORT

Beyen #3-2
API#: 15-125-32354-00-00
3390' FSL, 165' FEL
Sec. 3 T34S R14E
NE SE NE
Montgomery County, Kansas

Date: 1/16/2014

Operator: Serendipity Production Company, LC, 112 N Broad St., Guthrie, OK 73044

Drilling Contractor: Melander Drilling, Chris Melander, driller

Wellsite Geologist: Julie Shaffer – On location from 610' to TD

Dates Drilled: Set surface on 1/3/2014
Drilled 1/8-14/2014

Total Depth: 760'

Elevation: 870' Est.

Drilling Fluid: Compressed air with injected water

Surface Casing: 21.5' of 8 $\frac{3}{8}$ " surface casing cemented to surface

Electric Logs Run: N/A

Formation Tops: Formation tops were picked from field notes/geolograph

Rock Color Desc.: GSA rock color chart (dry cuttings)

Status: OIL WELL

Oil Shows:	Lenap Limestone	626-628'	Trace oil show
	Wayside Sandstone	649-654'	Fair oil show
	Wayside Sandstone	654-660.25'	Fair-Good oil show

Notes: Well cuttings were examined at the drill rig and discarded. Select samples of zones of interest were saved and examined in the laboratory with a binocular microscope and black-light. Formation tops were taken from field logs. Core was analyzed in the field and discarded.

FIELD and LABORATORY SAMPLE EXAMINATION

0-623' Samples not examined

Top of the Lenapah Limestone @ 623' (+247')

623-627' Lenapah Limestone, tan, very fine grained, medium-hard, strong oil odor, 50% uniform bright yellowish-brown hydrocarbon fluorescence. Samples exhibited an even, slow, medium-bright milky blue oil cut in black light, no residual show in white light; after crushing and repeating the solvent test there is no change.

627-649' Samples not examined

Top of the Wayside Sandstone at 649' (+221')

649-651' Wayside Sandstone, light gray, pale brown oil staining, very fine grained sandstone, silty, very friable, soft sand, 18+% porosity, strong petroliferous odor, uniform pale green hydrocarbon fluorescence

651-652' Wayside Sandstone, light gray with minor pale brown oil staining, 16-18% porosity, friable, poorly sorted, 40% of cuttings have pale green hydrocarbon fluorescence

652-654' Wayside Sandstone, light gray, pale brown oil staining, well saturated, very fine grained sandstone, very friable, soft sand, 18+% porosity, strong petroliferous odor, uniform pale green hydrocarbon fluorescence

Wayside Sandstone Core: 654-671'

-Fair oil show while coring.

654-656.5' *Sandstone, light gray, very fine grained, very soft, fair saturated, good live medium-light brown oil bleed in lenses, gassy, strong odor*

656.5-657' *Sandstone, light gray, shaley/silty, very tight, no oil show*

657-658' *Sandstone, medium-light brownish-gray, soft, very fine grained, fully saturated in uniform, light brown live oil bleed, gassy, strong odor*

658-660.25' *Sandstone, fine grained, medium soft, good live medium brown oil bleed, gassy, minor thin shale lenses*

660.25-669' *Sandstone, fine grained, medium-soft to medium-hard, much tighter sand, a heavier black, live oil bleed when broken (low permeability), only few lenses with live oil bleeding on core, poor saturation, little to no oil show*

669-671' *Sandstone, very shaley/silty, light gray, no oil show*

671-703' Samples not examined

Top of the Altamont Limestone @ 703' (+167')

703' Altamont Limestone, tan, hard, smooth texture

703-732' Samples not examined

Top of the Weiser Sandstone at 732' (+138')

732-752' Weiser Sandstone, light gray, 16-18% porosity, no petroliferous odor, no oil show, silty

752-760' Shale, medium gray

T.D. = 760'

Julie Shaffer
Geologist

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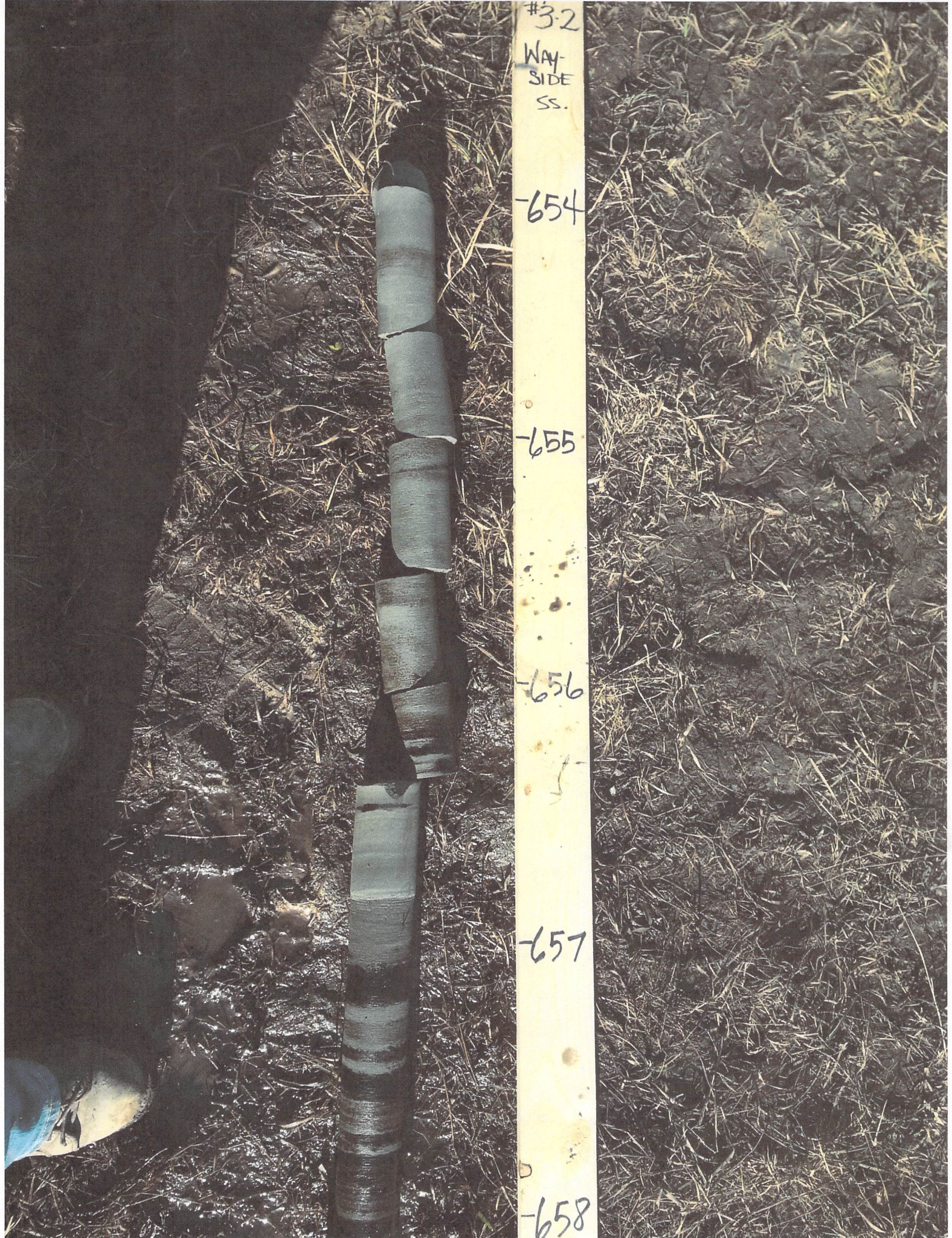
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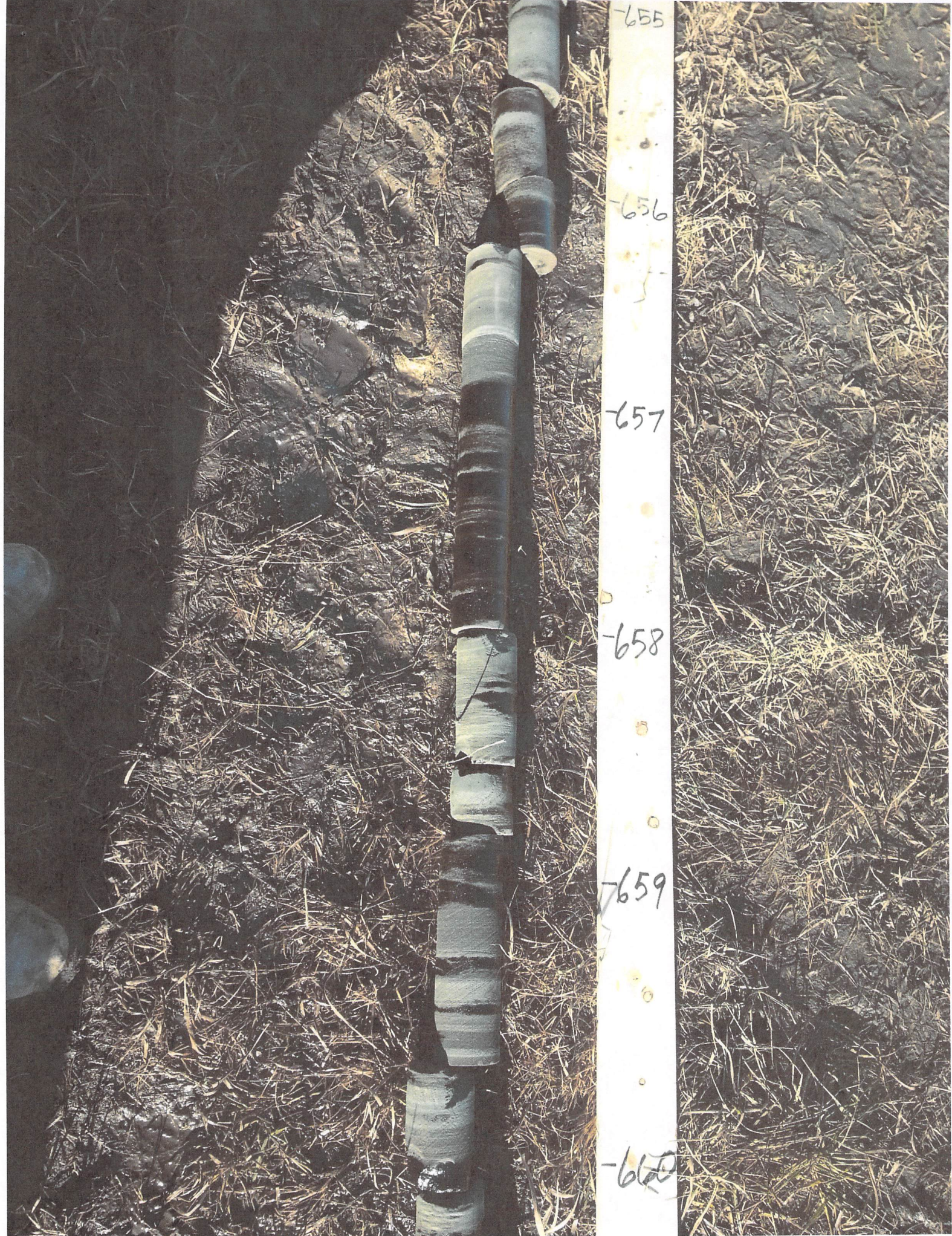


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