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RR#1, Box 69 Otis, Kansas 67565 geomurphy@gbta.net

Region: Kansas

**Drilling Completed: 8/18/13** 

Scale 1:240 (5"=100") Imperial **Measured Depth Log** 

Well Name: Railroad #4

**Location: Gove County** 

License Number: API # 15-109-22119-00-00

Spud Date: 8/10/13

Surface Coordinates: 1800' FSL & 745' FEL (NE SW E SE) Section 7-T14S-R31W

Bottom Hole Coordinates: Vertical well w/minimal deviation

Ground Elevation (ft): 2864'

K.B. Elevation (ft): 2872'

Logged Interval (ft): 3500'

To: TD

Total Depth (ft): 4590'

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical (Mudco, Inc)

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## **OPERATOR**

**Company: Pioneer Resources** 

Address:

**80 Windmill Drive** 

Phillipsburg, KS 67661-9622

## **GEOLOGIST**

Name: Steven P. Murphy, PG (Ks License #339)

**Company: Consulting Petrolrum Geologist** 

Address: 3365 CR 390

Otis, KS 67565

## LogTops (Datum)

The open-hole logging was performed by Gemini Wireline (Hays, KS shop). Logs included Compensated Neutron/Compensated Density, Dual Induction & Microlog.

Formation tops and datums from the open-hole logs include the following:

Anhydrite Top - 2342 (+530)

Anhydrite Base - 2364 (+508)

Heebner - 3869 (-997)

Toronto - 3890 (-1018)

Lansing - 3910 (-1038)

Muncie Creek Sh - 4070 (-1198)

Stark Sh - 4158 (-1286)

Hushpuckney Sh - 4194 (-1322)

Base KC - 4235 (-1363)

Pawnee 4358 (-1486)

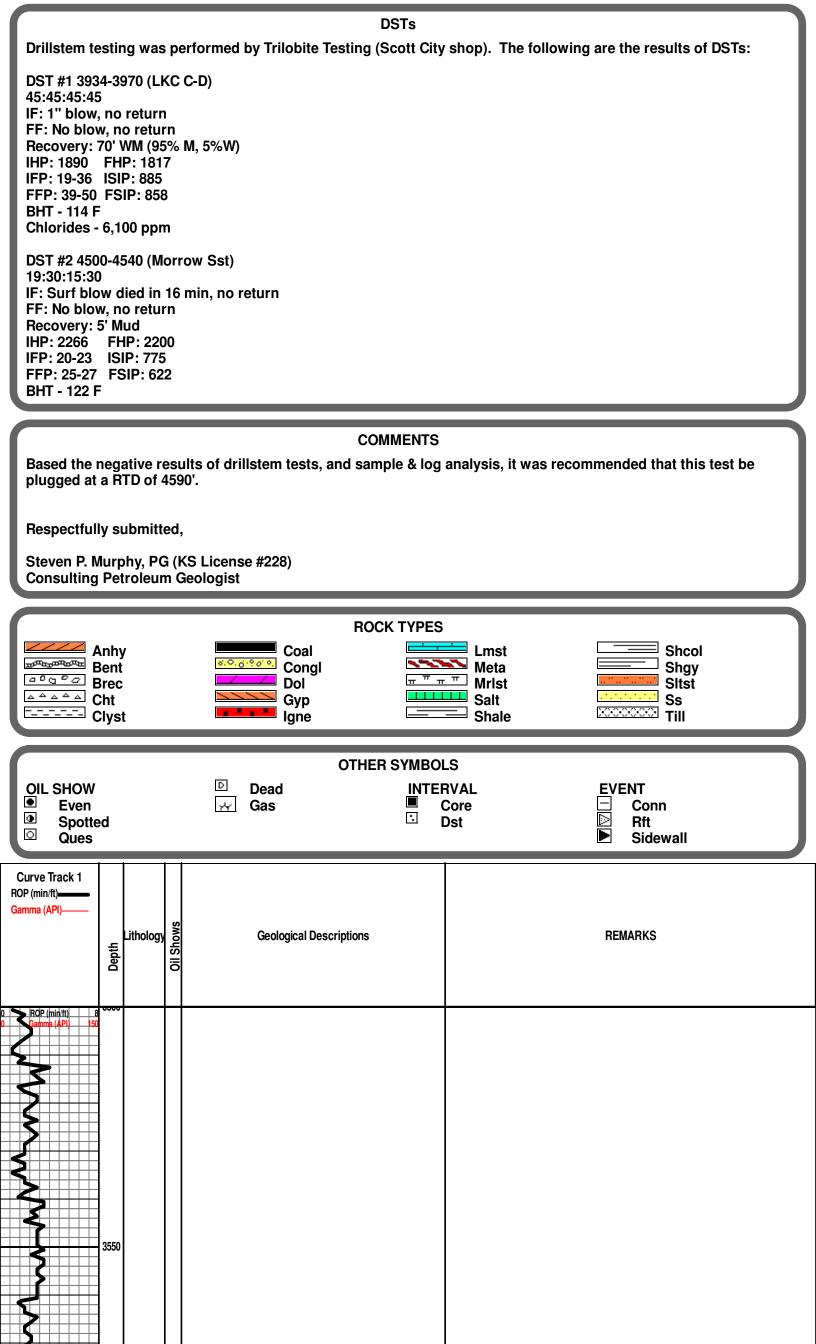
Ft. Scott - 4414 (-1542)

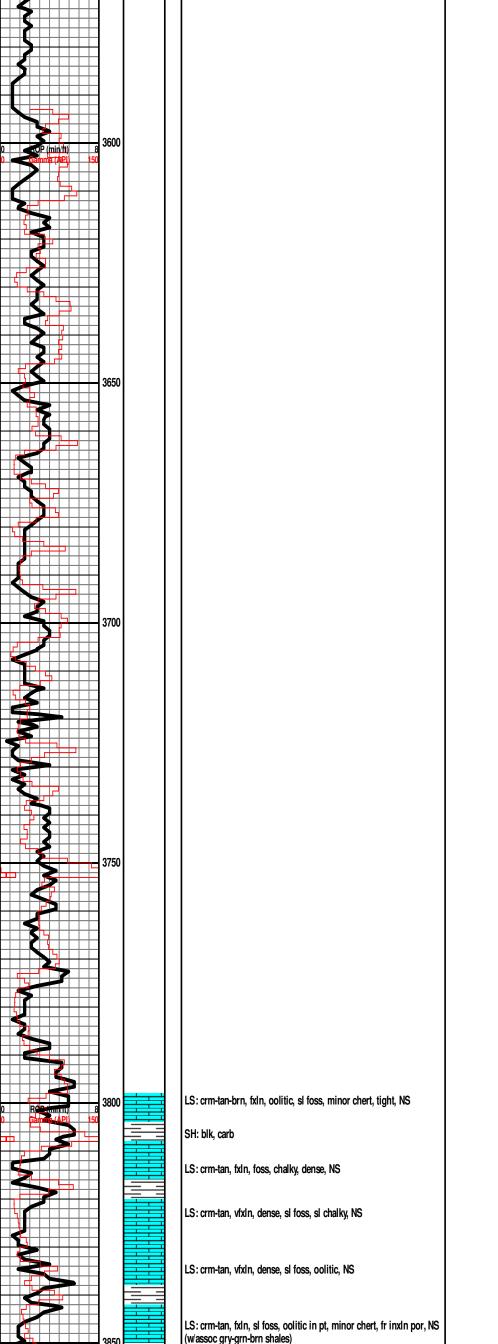
Cherokee Sh - 4442 (-1570)

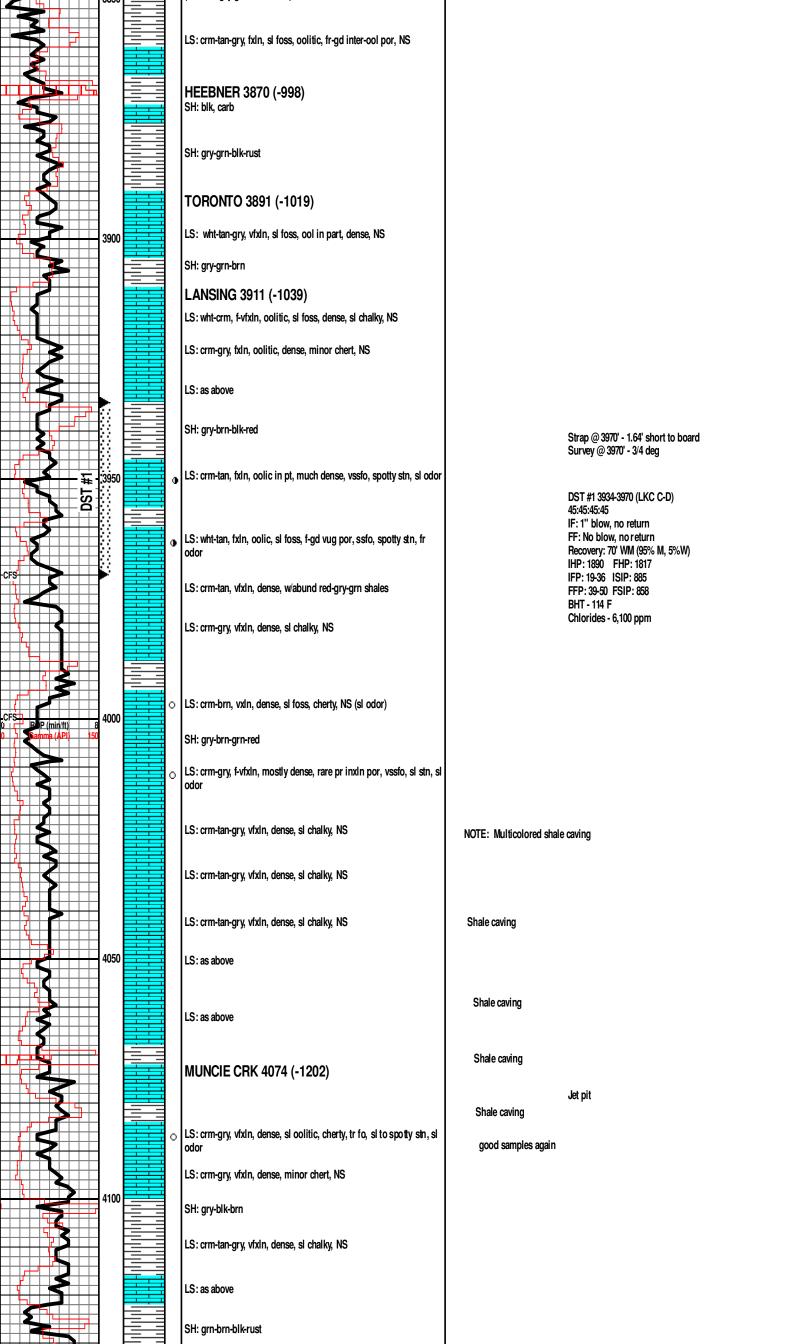
Johnson Zone - 4486 (-1614)

Morrow Sh - 4507 (-1635)

Mississippian - 4546 (-1674)







		LS: crm-gry, vfxln, dense, NS	Red shale cavings
	4150	LS: as above	Shale cavings
		STARK 4159 (-1287) SH: blk, carb	
		LS: crm-tan-gry, vfxln, v. dense, NS	
		LS: as above	
0 ROP (min(ff)) 8	4200	HUSHPUCKNEY 4195 (-1323) SH: blk, carb	
0 Gammia (API) 150		LS: crm-brn-gry, vfxln, v. dense, NS	
		LS: as above	
		BKC 4233 (-1361) SH: gry-brn-blk-grn-red	
	4250	LS: crm-gry, vfxln, dense, NS SH: gry-grn-brn-red	
		SH: as above	
		LS: crm-gry, vfxln, dense, sl chalky, NS	
		SH: gry-blk-grn-red-rust (sl sandy)	
		SH: as above	
		SH: as above	
	4300	SH: as above	
		SH: as above	
		LS: crm-gry, vfxIn, dense, minor chert, NS	Shale flood: red-grn-blk-gry
	4350	LS: crm-tan, vfxln, dense, NS (shale flood)	Shale flood: as above
		PAWNEE	Shale flood: as above
		LS: as above (shale flood)	Onac noon as asort
		LS: crm-tan, vfxin, dense, NS (shale flood)	Shale flood: as above
		LS: as above (shale flood)	Add Mud
	4400	MYRICK STATION	
0 R/P (min/ft) 8 0 Gamma (API) 150	55	SH: blk-gry-grn-red	Shale flood: as above

