

John Goldsmith (316) 640-0236 427 Roosevelt St. Cheney, KS 67025

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

Well Name: #1 Miller Trust

Location: 1880' FNL, 1700' FWL, SECTION 5-16S-36W, W/2 SE NW

License Number: API: 15-203-20307 Region: Wichita County

Surface Coordinates: LAT 38.6960196

LONG -101.3250673

**Bottom Hole Vertical hole** 

**Coordinates: 1/2 Degree Deviation** 

Ground Elevation (ft): 3306' K.B. Elevation (ft): 3311' Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4950'

Formation: Mississippian at RTD

Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.cor

#### **OPERATOR**

Company: Ritchie Exploration, Inc. Address: 8100 E 22nd St. N Bldg #700

Wichita, KS 67226 (316) 691-9500

## **GEOLOGIST**

Name: John Goldsmith
Company: Wellsite Services LLC
Address: 427 Roosevelt St

Cheney, KS 67025 (316) 640-0236

## **COMMENTS**

Contractor: WW Drilling Rig #2

**Pusher: Lonnie Lang** 

Surface Casing: 5 joints of 8 5/8" set at 211'

Production Casing: No production casing installed, well was plugged.

Mud by: MudCo

**DST's by: Trilobite Testing** 

Logs by: Pioneer Energy Services (DIL, CN-CD)

RTD=4950' LTD=4949'

### **FORMATION TOPS**

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3898'	-687	3898'	-687
Toronto	4020'	-709	4018'	-707
Lansing	4052'	-741	4052'	-741
Muncie Creek Shale	4229'	-918	4228'	-917
Stark Shale	4323'	-1012	4322'	-1011
Hushpuckney Shale	4367'	-1056	4367'	-1056
Base of KC	4410'	-1099	4408'	-1097
Marmaton	4448'	-1137	4447'	-1136
Altamont	4457'	-1146	4456'	-1145
Pawnee	4548'	-1237	4546'	-1235
Myrick Station	4592'	-1281	4592'	-1281
Ft Scott	4607'	-1296	4607'	-1296
Cherokee Shale	4636'	-1325	4635'	-1324
Johnson	4722'	-1411	4722'	-1411
Morrow	4778'	-1467	4779'	-1468
Mississippian	4871'	-1560	4871'	-1560
RTD	4950'	-1639		
LTD	1300		4949'	-1638

#### **DSTs**

DST #1 4044'-4072' "Lansing A" 5/24/16 30-45-45-60

1st Blw: 1/4" blw blt to BOB in 29min (No BB) 2nd Blw: Surf blw blt to BOB in 35min (No BB)

IFP: 19-93# ISIP: 1108# FFP: 98-166# FSIP: 1074# HYD: 1970-1935#

Rec: 155' WCMw/OS (20%WTR), 186' MCW (90%WTR).

DST #2 4076'-4100' "Lansing C" 5/25/16 30-45-45-60

1st Blw: 1/4" blw blt to 4" in 30min (No BB) 2nd Blw: Surf blw blt to 5" in 45min (No BB)

IFP: 15-60# ISIP: 1158# FFP: 62-89# FSIP: 1141# HYD: 1940-1983#

Rec: 1' FO, 50' WCMw/OS (10%WTR), 118' MCWw/OS (70%WTR).

DST #3 4133'-4178' "Lansing E/F" 5/26/16 30-45-45-60

1st Blw: 1/4" blw blt to 5" in 30min (No BB) 2nd Blw: Surf blw blt to 7" in 45min (No BB)

IFP: 19-57# ISIP: 1190# FFP: 62-87# FSIP: 1186# HYD: 2027-2004#

Rec: 50' GO(90%O), 60' GOCM(40%O), 60' OCM(20%O), 30'GIP.

DST #4 4415'-4524' "Altamont" 5/28/16 30-45-45-60

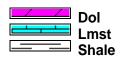
1st Blw: 1/4" blw blt to BOB in 6.5min (Surf BB dead in 10min)

2nd Blw: 1/4" blw blt to BOB in 7min (No BB)

IFP: 40-228# ISIP: 1297# FFP: 239-452# FSIP: 1293# HYD: 2339-2231#

Rec: 282' WM(50%WTR), 693' MCW(95%WTR).

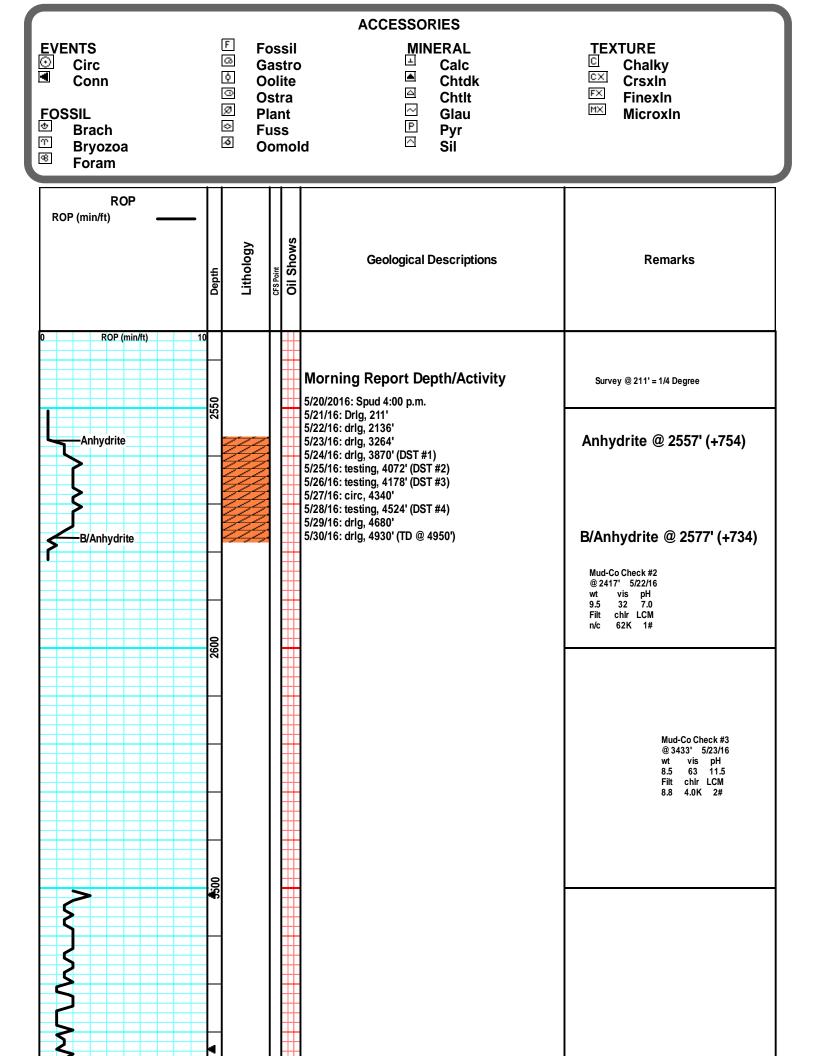


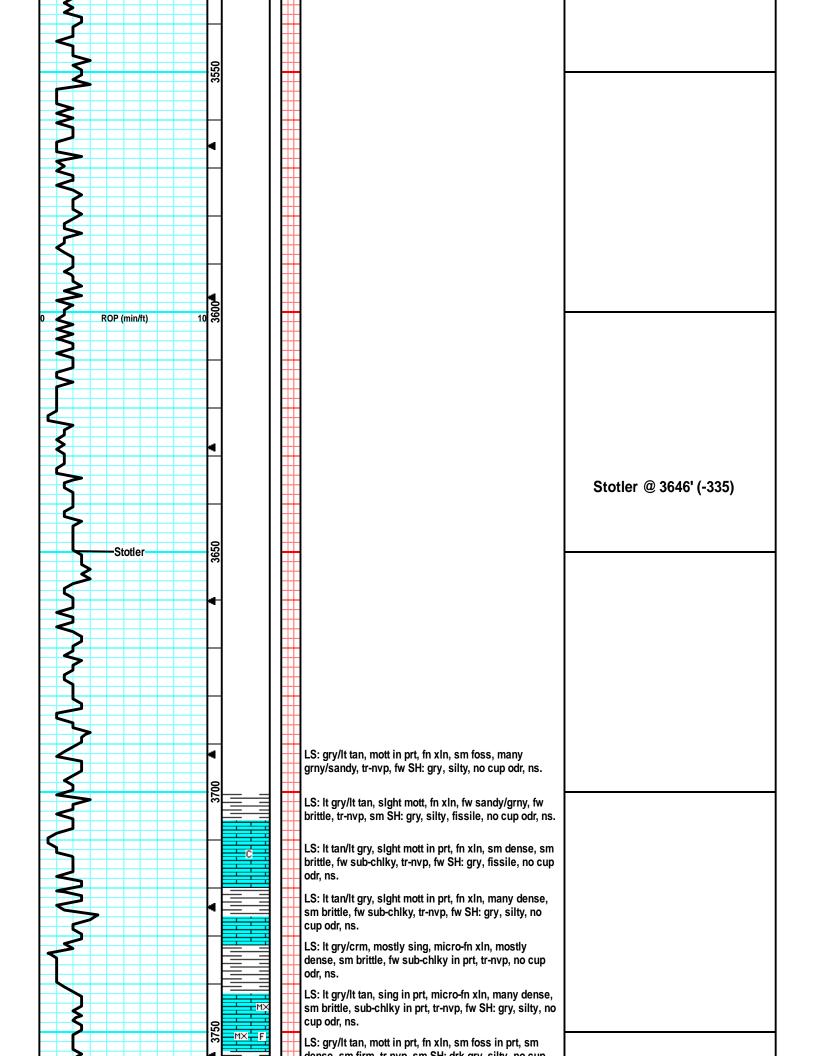




**ROCK TYPES** 







<b>S</b>	7 📗		uense, sin inni, u-nvp, sin on. urk gry, siny, no cup	
	1==	▋▐	odr, ns.	_
Topeka		1	LS: gry/tan, slght mott, fn xln, sm foss in prt, sm dense, tr-nvp, sm SH: gry/brn, silty, soft, no cup odr,	Topeka @ 3762' (-451)
	0 0	<b>!</b>	ns.	
	F.			
2			LS: tan/lt gry, sight mott, fn xln, sm foss/fw ool, sm brittle, tr-nvp, fw SH: brn, silty, soft, no cup odr, ns.	
3	- 6	<b> </b>    -	billiae, it-livp, iw ort. bill, sitty, soit, no cup our, its.	
			LS: It gry/lt tan, sight mott, fn xin, sm foss/ool, sm	
			brittle, fw sub-chlky in prt, tr-nvp, fw SH: brn/gry, silty,	
<b>S</b>	• P	-	no cup odr, ns.	
	F	1	LS: It gry/crm, sight mott in prt, fn xin, sm foss, fw ool,	
7			many brittle, fw sub-chlky in prt, tr-nvp, no cup odr, ns.	
	10 88 = F		LS: gry/lt tan, sight mott in prt, fn xln, fw foss in prt, sm	
0 ROP (min/ft)	10 8	<b> </b>	brittle, fw gritty/sandy, tr-nvp, fw SH: gry/brn, silty, no	
			cup odr, ns.	
			LS: gry/tan, sIght mott in prt, fn xIn, fw foss in prt, mostly brittle, sm sandy/gritty, tr-nvp, sm SH: drk	
		$\parallel \parallel \parallel$	gry/brn, silty, fissile, no cup odr, ns.	
			gry/min, anty, natio, no oup our, na.	
	4			
			No Samples: Mud pump broke down, limited returns.	
5				2926' Mud Dumn broko
				3826' Mud Pump broke
		]	LS: tan/lt gry, slght mott, fn xln, v fw foss frags, sm	down. 3hrs of down time.
	┪╞══	<b>∮</b>	brittle, sm dense, sub-chlky in fw, tr-nvp, svrl SH:	
			gry/grn, silty, sm waxy, no cup odr, ns.	
			LS: tan/lt gry, sight mott, fn xln, sm brittle, fw dense, sub-chlky in prt, tr-nvp, svrl SH: gry/blu, silty, sm soft,	
			no cup odr, ns.	
	920	<b> </b>	-	
	MX		LS: tan, mostly sing, micro-fn xln, mostly brittle, sm	
		1	dense, tr-pr ppt intxIn por in fw, fw SH: gry, silty, fissile, no cup odr, ns.	
			• •	
			LS: tan, mostly sing, fn xln, mostly brittle, sm dense,	
	Ç		sub-chlky in prt, tr-pr ppt intxln por in sm, fw SH: gry, silty, no cup odr, ns.	
			sitty, no cup our, ris.	
		<b> </b>	LS: tan/It tan, mostly sing, fn xln, many brittle, sm	
			dense, chlky, tr-pr ppt intxln por, abund pur chlk, fw	
			SH: drk gry, silty, no cup odr, ns.	
	- ◀	▋╫	LS: gry/tan, mott in prt, fn xln, sandy/gritty, brittle,	
		▮♯	tr-nvp, abund chlky, fw SltStn: gry, friable, brittle, svrl SH: gry/brn, silty, sm soft, no cup odr, ns.	
	o.:-	1	Sh: gry/brn, shty, shi sort, no cup our, ns.	
			LS: gry/tan, mott in prt, fn xln, brittle, sandy/gritty,	
	6←~√°		tr-nvp, fw SitStn: gry, friable, brittle, svrl SH: gry/brn,	
	s =====	1	silty, soft, no cup odr, ns.	
	3300		LS: gry/tan, mott in prt, fn xln, sm brittle, svrl	
		<b> </b>	flakey/mealy, tr-nvp, svrl SH: gry/brn, silty, fw pcs pur	
			chlk, no cup odr, ns.	
	C		•	
<b> </b>   <b> </b>   <b> </b>	•	<b> </b>    -	LS: gry/tan, mott in prt, fn xln, sm brittle, sm flakey, tr-nvp, fw drk mins stns, no fluor/cut, abund SH:	
			gry/brn, silty, soft, no cup odr, ns.	
		<b>!</b>		
	1 ===	]	LS: gry/tan, mott in prt, fn xln, sm brittle, sm flakey/mealy, tr-nvp, abund SH: gry/brn, silty, no cup	
		]	odr, ns.	
		<b> </b>	LS: tan/lt gry, mostly sing, fn xln, many dense, sm	Chart Trin OF
	F		brittle, sub-chlky in prt, tr-nvp, v fw SH: drk gry/blk,	Short Trip 25
			silty, soft, carb, no cup odr, ns.	Stands @ 3946'
<b></b>		<b>!</b>	LS: gry/lt tan, sight mott, fn xin, fw foss frags, mostly	
	F	┇┇	brittle, fw dense, tr-nvp, v fw SH: gry, silty, no clup odr,	CFS @ 3946'
		⊙##	ns.	(30"/60")
	3950		LS: gry/tan, mostly sing, fn xln, many dense, sm	
	(°)		brittle, sub-chlky in fw, tr-nvp, abund pur chlk, svrl pcs	Mud-Co Check #4
	L L		SH: gry/brn, silty, soft, no cup odr, ns.	@ 3946' 5/24/16
			LS: tan/lt tan, mostly sing, fn xln, sm gritty like, sm	wt vis pH 8.9 58 11.0
			brittle, fw sub-chlky, tr-pr ppt intxln por in sm, v fw SH:	Filt chlr LCM
7		-	gry, silty, soft, no cup odr, ns.	7.2 4.4K 2#
	F		LS: It gry/It tan, mostly sing, fn xln, v fw foss frags,	
	<del></del>	<b> </b>	mostly dense, sm brittle, tr-nvp, fw Chert: wht/opq,	
	C		foss sharp no cup odr ns	

