**OPERATOR** 

Younger Energy Company Company: Address: 9415 E. Harry St. Suite 403, Bldg 400

Wichita, KS 67207

**Contact Geologist:** 

Contact Phone Nbr: 316-681-2542 Well Name: Jost #1-27

Sec. 27 - T21S - R15W Location: API: 15-145-21740-0000 Field: Pool: **Hurray North** State: Kansas Country: USA



Scale 1:240 Imperial

10:00

01:15

3985.00ft

Time:

Time:

To:

Latitude:

Time:

Time:

10:00

01:15

1961.00ft

F & M - Jost #1

SE SW SW

27-21s-15w-Pawnee

Dustin ⊟lis

PRESSURE SUMMARY

Annotation

Initial Hydro-static

Open To Flow (1)

Temp

(deg F)

109.32

108.77

3315-Great Bend-40

1972.00 ft (KB)

1961.00 ft (CF)

11.00 ft

5000.00 psia

2013.11.23

Jost 1-27

Tester:

Unit No:

Last Calib.:

Reference Elevations:

Well Name:

Jost #1-27 Surface Location: Sec. 27 - T21S - R15W

**Bottom Location:** 

15-145-21740-0000 30705

License Number:

Spud Date: 11/16/2013 Region: Pawnee County Drilling Completed: 11/24/2013

Surface Coordinates: 875' FSL & 685' FWL **Bottom Hole Coordinates:** 

**Ground Elevation:** 

1961.00ft K.B. Elevation: 1972.00ft Logged Interval: 3200.00ft Total Depth: 3985.00ft

Formation:

E/W Co-ord:

Company:

Drilling Fluid Type: Chemical/Fresh Water Gel

Arbuckle

685' FWL

**SURFACE CO-ORDINATES** Vertical

Well Type: Longitude: N/S Co-ord: 875' FSL

**LOGGED BY** 

Keith Reavis Consulting Geologist

Address: 3420 22nd Street Great Bend, KS 67530

Keith Reavis, Inc.

Phone Nbr: 620-617-4091 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: **Duke Drilling Company** 

Rig #:

1972.00ft

Rig Type:

K.B. Elevation:

mud rotary Spud Date: 11/16/2013 TD Date: 11/24/2013

Rig Release: Time: **ELEVATIONS** 

**Ground Elevation:** 

K.B. to Ground: 11.00ft

### **NOTES**

Due to negative results of DST #1 and DST #3 conducted in the Conglomerate/Viola, as well as low structural position and lack of shows in the Arbuckle, it was determined by all parties that the Jost #1-27 be plugged and abandoned as a dry test.

A Bloodhound gas detection system operated by Bluestem Environmental Engineering was employed on this well. ROP and gas curves were imported from the Bloodhound into this report. Gamma ray and caliper curves were also imported from the electrical log suite. Log tops were generally within a foot or two or ROP/sample tops, therefore, no curves were shifted to provide an exact match, but were left as recorded in the field.

Respectfully submitted, Keith Reavis

# Younger Energy Company daily drilling report

11/21/2013	3161	Coolegist Voith Bornis on location @ 1220 kms 2205 ft dmilling should
		Geologist Keith Reavis on location @ 1230 hrs, 3285 ft, drilling ahead Queen Hill, Heebner, Toronto, Douglas, Lansing
11/22/2013	3628	drilling ahead, Lansing, BKC, Marmaton, Conglomerate
11/23/2013	3862	drilling Conglomerate, Viola, conduct short trip at 3750, show in Viola chert warrants test, TOH w/bit, in w/tools, conduct and complete DST #1, successful test, TIH w/bit, resume drilling, Simpson, Arbuckle
11/24/2013	3985	rathole ahead to TD in Arbuckle, TD @ 0115 hrs, ctch, TOH for logs, conduct logging operations, run in hole with tools after logs for DST #2 (straddle test of Viola), packer failure, pull tools and reset upper packer, back in hole, conduct DST #3, complete DST #3
11/24/2013	3985	lay down tools, decide to plug well, geologist off location 0200 hrs

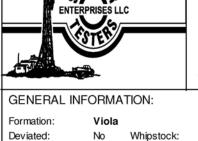
### Younger Energy Company well comparison sheet COMPARISON WELL DRILLING WELL

Younger - Jost #1-27 875' FSL & 987' FWL

		Sec. 27-T	21s-R15W	Sec. 27-T21S-R15W				
							Struct	ural
200	1972 KB					KB	Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Queen Hill	3267	-1295	3266	-1294	3261	-1285	-10	-9
Heebner	3372	-1400	3370	-1398	3365	-1389	-11	-9
Douglas	3406	-1434	3404	-1432	3400	-1424	-10	-8
Brown Lime	3478	-1506	3478	-1506	3475	-1499	-7	-7
Lansing	3488	-1516	3488	-1516	3484	-1508	-8	-8
Lansing G	3578	-1606	3580	-1608	3575	-1599	-7	-9
Lansing H	3616	-1644	3614	-1642	3610	-1634	-10	-8
Stark	3669	-1697	3669	-1697	3664	-1688	-9	-9
Base KC	3718	-1746	3720	-1748	3713	-1737	-9	-11
Conglomerate	3806	-1834	3804	-1832	3806	-1830	-4	-2
Viola	3825	-1853	3820	-1848	3824	-1848	-5	0
Simpson	3856	-1884	3858	-1886	3853	-1877	-7	-9
Arbuckle	3910	-1938	3911	-1939	3901	-1925	-13	-14
Total Depth	3985	-2013	3986	-2014	3905	-1929	-84	-85

## DRILL STEM TEST REPORT

**Drill Stem Test #1** 



Time Tool Opened: 08:03:00

Time Test Ended: 12:40:00

Start Date:

#### Younger Energy Company 9415 East Harry Street Suit

403 Wichita Ks.67207 Job Ticket: 18464 ATTN: Keith Reavis Test Start: 2013.11.23 @ 05:22:00

2013.11.23

ft (KB) Test Type: Conventional Bottom Hole (Initial)

3714.00 ft (KB) To 3862.00 ft (KB) (TVD) Interval: Total Depth: 3862.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair

2013.11.23

KB to GR/CF: Serial #: 8159 Outside Press@RunDepth: Capacity: 478.93 psia @ 3859.87 ft (KB)

End Date:

Start Time: 05:22:00 End Time: Time On Btm: 12:40:00 2013.11.23 @ 08:02:30 2013.11.23 @ 11:03:30 Time Off Btm: TEST COMMENT: 1st Open 10 minutes Strong blow built to bottom bucket 8 minutes. 1st Shut in 45 minutes No blow back.

Pressure vs. Time Time Pressure

2nd Shut in 75 minutes No blow back

(Min.) (psia) 1988.88 391.22

2nd Open 45 minutes Strong blow built to bottm bucket instantly.

485.79 109.52 Shut-ln(1) 10 56 490.09 110.70 End Shut-In(1) 110.75 Open To Flow (2) 58 481.63 100 478.93 111.75 Shut-In(2) 113.03 End Shut-In(2) 179 494.27 1820.39 113.38 Final Hydro-static 181 Darkings Dark To File

Recovery Gas Rates

