	OPERATOR			
Company:	Younger Energy Company			
	9415 E. Harry Street			
	Suite 403 Bldg. 400			
	Wichita, KS 67207			
Contact Geologist:				
Contact Phone Nbr:	316-681-2542			
Well Name:	Keller Becker #1-35			
Location:	Sec. 35 - T21S - R15W			
API:	15-145-21773-0000			
Pool:		Field:	Hurray	
State:	Kansas	Country:	USA	

	Younge	Company		
	Scale 1:240 Imperi	al		
Well Name: Surface Location: Bottom Location:	Keller Becker #1-35 Sec. 35 - T21S - R15W			
API:	15-145-21773-0000			
License Number:	30705			
Spud Date:	7/22/2014	Time:	3:45 PM	
Region: Drilling Completed: Surface Coordinates:	Pawnee County 7/29/2014 460' FSL & 420' FWL	Time:	7:50 AM	
Bottom Hole Coordinates: Ground Elevation: K.B. Elevation:	1964.00ft 1972.00ft			
Logged Interval: Total Depth: Formation:	3200.00ft 4120.00ft Arbuckle	To:	4120.00ft	
Drilling Fluid Type:	Chemical/Fresh Water Gel			

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	
Latitude:	
N/S Co-ord:	460' FSL
E/W Co-ord:	420' FWL

	LOGGED	ЗҮ	
	eologist		
Company: Address:	Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530		
Phone Nbr: Logged By:	620-617-4091 KLG #136	Name:	Keith Reavis
	CONTRACT	OR	
Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	Duke Drilling Company 2 mud rotary 7/22/2014 7/29/2014	Time: Time: Time:	3:45 PM 7:50 AM
	ELEVATIO	NS	
K.B. Elevation: K.B. to Ground:	1972.00ft 8.00ft	Ground Elevation:	1964.00ft
No drill stem tests were conducted	NOTES d on the Keller Becker #1-3	5 due low structural p	osition. The well was drilled 200' into

No drill stem tests were conducted on the Keller Becker #1-35 due low structural position. The well was drilled 200' into the Arbuckle and 5 1/2" production casing was set and cemented with the intent of testing the Viola and Simpson through perforations and stimulation. If production proves non-commercial, the well will then be converted to a salt water

disposal.

A Bloodhound gas detection system was employed during the drilling of this well. ROP and gas curves were imported into this mudlog as well as gamma ray and caliper curves from the electrical log suite.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted, Keith Reavis

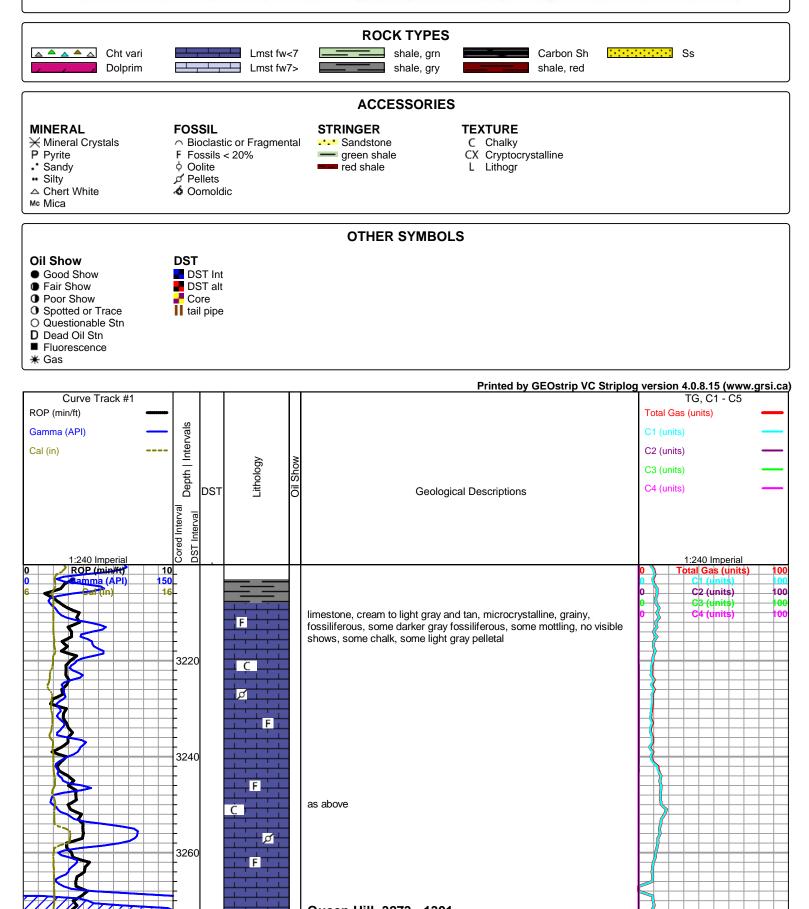
Younger Energy Company

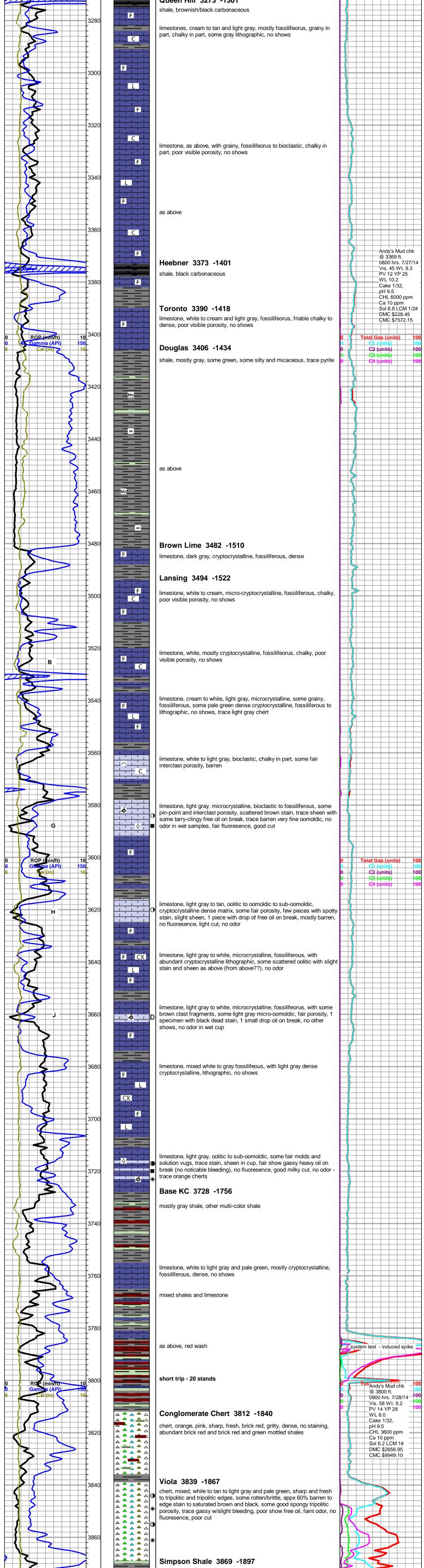
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
07/27/2014		Geologist Keith Reavis on location @ 0155 hrs, 3266 ft, drilling ahead Topeka, Heebner, Douglas, Lansing
07/28/2014	3757	drilling ahead, Lansing, Base KC, Marmaton, short trip @ 3800', drill ahead conglomerate, Viola, Simpson, Arbuckle
07/29/2014	4116	ratholing ahead to TD in Arbuckle, TD 4120 ft @ 0750 hrs, TOH, conduct logging operations, geologist off location @ 1615 hrs

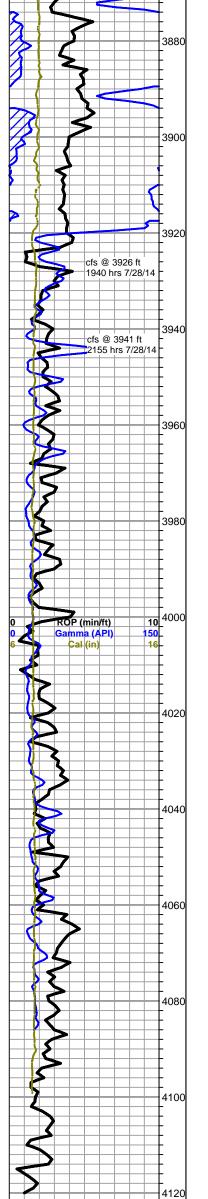
Younger Energy Company	r				
well comparison sheet					

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
	Ke	Keller - Becker #1-35				F & M - Shartz #1				F & M Keller #2			
	460' FSL & 420' FWL				C N/2 SE SE			681' FSL & 4974' FWL					
	Sec 35-T21S-R15W			Sec 34-T21S-R15W			Sec 35-T215-R15W						
	1						Struct	ural			Struct	Structural	
	1972	KB			1975	1975 KB Relatio		onship	1974	KB	Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Queen Hill	3273	-1301	3269	-1297	3268	-1293	-8	-4					
Heebner	3373	-1401	3372	-1400	3372	-1397	-4	-3	3371	-1397	-4	-3	
Douglas	3406	-1434	3405	-1433	3405	-1430	-4	-3	3405	-1431	-3	-2	
Brown Lime	3482	-1510	3481	-1509	3482	-1507	-3	-2	3481	-1507	-3	-2	
Lansing	3494	-1522	3491	-1519	3491	-1516	-6	-3	3490	-1516	-6	-3	
BKC	3728	-1756	3724	-1752	3724	-1749	-7	-3	3723	-1749	-7	-3	
Cong. Chert	3812	-1840	3814	-1842	3810	-1835	-5	-7	3810	-1836	-4	-6	
Viola	3839	-1867	3834	-1862	3834	-1859	-8	-3	3831	-1857	-10	-5	
Simpson	3869	-1897	3864	-1892	3864	-1889	-8	-3	3854	-1880	-17	-12	
Simp. Sand	3922	-1950	3920	-1948	3916	-1941	-9	-7	3910	-1936	-14	-12	
Arbuckle	3926	-1954	3924	-1952	3919	-1944	-10	-8	nr	nr			
Total Depth	4120	-2148	4118	-2146	3920	-1945	-203	-201	3917	-1943	-205	-203	
					Note,	depths in	red						
					are dr	iller/sam	ple tops						





Queen Hill 32/3 -1301



influx shales, although not alot in samples, gray to green silty shale, some red shales, silty, still very abundant cherts from above

a.a., slight increase in shale, trace sandstone, quartz, fine grain, white cemented, fair rounding and sorting, fair cementing, no porosity or shows, abundant soft pink clays in samples

3910 sample, marked increase in shales and sandstone a.a.

3920 sample influx waxy pryitic green shale

3926 sample, green waxy shale with sandstone, 2 facies, black to light gray, quartz, some arkose, fine to very fine grain, (light gray facies very fine grain and better sorted) sub-round to sub-angular, poor sorting, poor visible porosity, well cemented (silicieous), plant remains, black saturated gilsonitic stain, light gray finer grain facies profusely bleeding oil, no fluoresence, black facies, no cut, light gray facies, good milky cut, good odor in wet samples

Simpson Sand 3922 -1950

30 min - sandstone, quartz, very fine grain, (few clusters fine grain) sub-round to round, well sorted, fair cementing, fair porosity, barren to light golden stain, trace oil droplets with sheen, bright green fluoresence, no cut, fair odor <u>60 min</u> - sand a.a., with light gray and tan dolomite, microcrystalline, some sandy, no shows, pungent odor in this sample

Arbuckle 3926 -1954

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3926-3930 see 60 min sample above

@ 3930 - dolomite, light gray to white and tan, micro to fine crystalline, some sucrosic, trace recrystallized, sandy in part, scattered intercrystalline porosity, some light golden stain, trace gas bubbles, sheen, no show free oil, pungent sour odor, bright green yellow fluoresence, questionable cut

dolomite, mixed, gray to tan, micro-fine crystalline rhombic, dense to fair porosity, some very pyritic, trace recrystallized and trace oolitic, no shows

grading to: dolomite, light gray to pink and orange, cryptomicrocrystalline, mostly dense with some fair intercrystalline rhombic, some friable, some recrystallized, no shows

as above, more grays, some fine crystalline, fair to good porosity, no shows

flood light green shale

dolomite, mostly light gray to cream, microcrystalline, rhombic, some good vugs and intercrystalline porosity, abundant dense cryptocrystalline lithographic, no shows

dolomite, ;mixed, light gray to cream and some pink, microcrystalline, rhombic to sucrosic, some oomoldic and some recrystallized, scattered dense cryptocrystalline lithographic, no shows

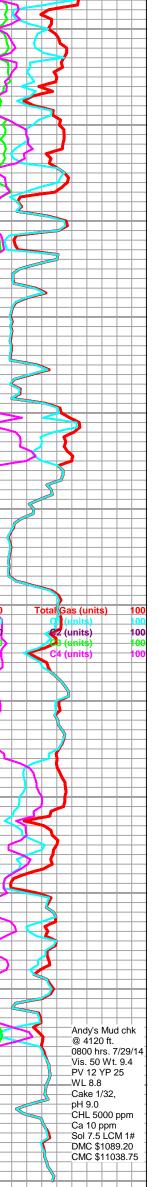
dolomite, light gray to tan and pink, mixed crystalline to recrystallized, scattered oomoldic, some fair intercrystalline porosity and vugs, with chert, light gray opaque, some oolitic, abundant white chert, slighty weathered, abundant caliche

mixed dolomite as above, with chert, some sandy, with sand stringers, quartz, very fine grained, well sorted and rounded, friable, no shows

dolomite, grading to gray and tan and light gray, microcrystalline, some rhombic, abundant recrystallized and oolitic, poor overall visible porosity, no shows, cherts as above but decreasing

as above, influxe oomoldic dolomite, tan

dolomite, gray to light gray, microcrystalline, sub-rhombic to sucrosic, increase in cherts, abundant large quartz crystals, poor visible porosity, no shows



rotary TD 4120 ft @ 0750 hrs 7/29/14 Nabor Log TD 4118 ft Complete Logging Operations @ 1540 hrs 7/29/14			
Complete Logging Operations @ 1540 hrs 7/29/14	\square		
		++	