

LEETH EVALUATION

Company	YOUNGER ENERGY COMPANY					
Well	JOHNSTON #3 OWWO					
Field	HURRAY NORTH					
County	PAWNEE		State		KANSAS	
Location Spot	SEC 34	TWP 21S	RGE 15W			
333FNL 349FEL						
API Well Number		15-145-20781-0001		Elevation		
Permanant Datum	GROUND LEVEL		Elevation		K.B.	
Log Measured From	K.B.		A.G.L.		D.F.	
Drilling Measured From	KELLY BUSHING				G.L.	
Description	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Date	2/23/2015					
Top Parameter Depth	3000	3820	3910			
Bottom Parameter Depth	3820	3910	4055			
Bit Size	7.875					
BHT	117					
Rmf @ FT	0.200	0.200	0.200			
Rw @ FT	0.050	0.080	0.100			
Location	WICHITA					
Evaluation By	R. LEETH					
Recommended Perf / SPF						
Recommended Perf / SPF						

We do not guarantee results, nor make warranties either expressly or implied. Under no circumstances shall we be liable damages relative to this evaluation.

LOG DATA		EVALUATION DATA	
Name	Description	Name	Description
DEPTH.FT	depth	DEPTH.FT	depth
CNPOR.PU	Compensated Neutron porosity	BIT.IN	bit size
DCAL.IN	Compensated Density caliper	BVWb.V/V	bulk volume water in matrix porosity system
DPOR.PU	Compensated Density porosity	BVWs.V/V	bulk volume water in secondary porosity system
GR.API	gamma ray	BVWsgxo.V/V	bulk volume water in the flushed zone system
MEL15.OHM-M	1.5 inch Microinverse resistivity	CALI.IN	caliper
MEL20.OHM-M	2 inch Micronormal resistivity	Dh.G/CC	hydrocarbon density
MELCAL.IN	Microlog caliper	DMAA.G/CC	apparent matrix density
PE.	Photoelectric Pffect	DSRGIP.MMCFG	delta sum recoverable gas in place
RHOC.G/CC	Compensated Density correction	DSROIP.BO	delta sum recoverable oil in place
RILD.OHM-M	Deep Induction resistivity	DSUMQg.MCFGPD	delta sum of productive gas
RILM.OHM-M	Medium Induction resistivity	DSUMQo.BOPD	delta sum of productive oil
RLI3.OHM-M	Short Guard resistivity	DSUMQw.BWPD	delta sum of productive water
RxoRt.	ratio of shallow resistivity to deep resistivity	GR.API	gamma ray
SP.MV	spontaneous potential	Khb.MD	permeability to hydrocarbon from matrix porosity system
SPOR.PU	Sonic porosity	Khs.MD	permeability to hydrocarbon from secondary porosity system
		ms.DEC	cementation exponent for secondary porosity system
		OOM.DEC	oomoldic flag
		PSGC.V/V	gas corrected sonic porosity
		PX.V/V	crossplot porosity
		Rds.OHMM	calculated deep resistivity
		SP.MV	spontaneous potential
		SUMQg.MCFGPD	sum of productive gas
		SUMQo.BOPD	sum of productive oil
		SUMQw.BWPD	sum of productive water
		SUMRGIP.MMCFG	sum of recoverable gas in place
		SUMROIP.BO	sum of recoverable oil in place
		Swb.V/V	water saturation in matrix porosity system
		Sws.V/V	water saturation in secondary porosity system
		Sxo.V/V	water saturation of the flushed zone
		VSH.V/V	shale volume





