

SPUD DATE: 31 Oct 2014  
 FINISH DATE: 4 Nov 2014  
 LEASE: Harra  
 LEASE OPERATOR: KRED  
 WELL: KR-20  
 API: 15-121-30757  
 SEC: TWP: RNG:  
 COUNTY: Miami  
 DRILLERS NAME: Ronnie Howard  
 RIG #: 1



2394 UTAH ROAD  
 RANTOUL, KS 66079

SURFACE: SIZE BIT 9 7/8 LENGTH 22'9 SIZE 7" CEMENT 5 Bags  
 DRILL BIT SIZE 5 7/8 LENGTH NA SIZE NA BAFFLE NA  
 TD 760 CORED 476-496

FORMATIONS	THICKNESS	FROM	TO	FORMATION	THICKNESS	FROM	TO
Soil	16	0	16	Lime	5	528	533
Lime	18	16	34	Shale	9	533	542
Shale	104	34	138	Lime	8	542	550
Lime	18	138	156	Shale	18	550	568
Shale	28	156	184	Lime	2	568	570
Lime	6	184	190	Shale	12	570	582
Shale	28	190	218	Lime	5	582	587
Lime	14	218	232	Shale	17	587	604
Shale	13	232	245	Lime	8	604	612
Lime	12	245	257	Shale (5ft Coal)	8	612	620
Shale	3	257	260	Lime	2	620	622
Lime	13	260	273	Shale	8	622	630
Coal	5	273	278	Lime	1	630	631
Lime	20	278	298	Shale	13	631	644
Coal	4	298	302	Lime	4	644	648
Lime	16	302	318	Shale	42	648	690
Shale	136	318	454	Lime	3	690	693
Coal	2	454	456	Shale	24	693	717
Shale	3	456	459	Lime	2	717	719
Red Bed	5	459	464	Coal	5	719	724
Shale	5	464	469	Shale TD	36	724	760
Broken Sand 20% <sup>NP</sup> show	1	469	470				
Broken limey Sand <sup>some</sup> smell	4	470	474				
Limey Sand <sup>good</sup> deep up	2	474	476				
Limey Sand	2	476	478				
Lime	2	478	480				
Broken Sand	4	480	484				
oil Sand	3	484	487				
Shale	23	487	510				
Lime	8	510	518				
Shale	10	518	528				

\*Dry Hole  
 plugged w/our  
 plug string +  
 Pulling Unit X