



Operator **KANSAS MB PROJECT** Well No. **MB-4** Lease **WALTER MOORE** Loc. **1/4 1/4 1/4** Sec. **3** Twp. **34** Rge. **13**

County **CHAUTAQUA** State **KS** Type/Well **919'** Depth **919'** Hours **9-5-14** Date Started **9-5-14** Date Completed **9-6-14**

Job No.	Casing Used	Bit No.	Type	Bit Record		Coring Record		To	% Rec.
				size	From	To	From		
Driller	TOOTIE Cement Used	41' 8 5/8"		6 3/4"					
Driller	Rig No.								
Driller	Hammer No.								

Formation Record

From	To	Formation	From	To	Formation	From	To	Formation
0	41	SURFACE	428	432	BLK SHALE			
41	67	SHALE	432	457	SHALE			
67	71	LIME	457	491	SAND			
71	84	SHALE	491	557	SHALE			
84	85	LIME	557	565	LIME			
85	87	SHALE	565	570	SHALE			
87	90	LIME	570	588	SAND			
90	102	LIMEY SHALE	579		LIGHT ODOR			
102	133	SHALE	588	707	SHALE			
133	140	LIME	707	714	BLK SHALE			
140	157	SHALE	714	716	LIMEY SHALE			
157	163	LIME	716	724	BLK SHALE			
163	175	SHALE	724	734	SHALE			
175	178	LIME	734	749	LIME			
178	196	SANDY LIME	749	802	SHALE			
196	205	SANDY SHALE	802	815	LIME			
205	258	SHALE	815	822	BLK SHALE			
258	278	SANDY SHALE	822	825	SANDY LIME			
278	279	LIME	825	826	SHALE			
279	285	SHALE	826	835	LIME			
285	288	LIME	835	845	SANDY SHALE			
288	291	SANDY SHALE	845	872	SAND			
291	292	COAL	853		ODOR			
292	296	SHALE	872	919	SANDY SHALE			
296	330	SAND						
311		WENT TO WATER			T.D. 919'			
330	380	SHALE						
380	386	SAND						
386	390	SHALE						
390	407	SAND						
407	428	SANDY SHALE						