



# GEOLOGISTS' REPORT

OPERATOR: **MURFIN DRILLING COMPANY, INC.**  
 LEASE: **KACIREK # 1-21**  
 LOCATION: **1800 FNL & 2310 FEL**  
 SEC. **21** TWPSP **2S** RGE **36W**  
 COUNTY **RAWLINS** STATE **KANSAS**  
 FIELD **WILD CAT**

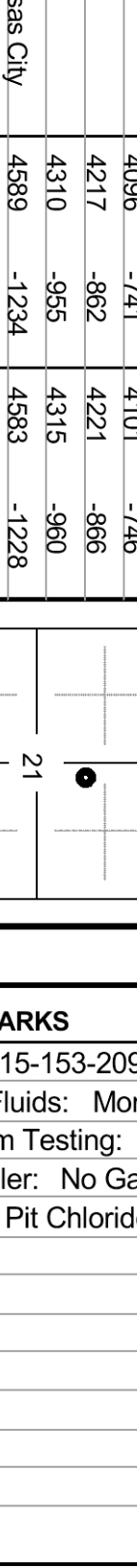
CONTRACTOR: **Murfin Drilling Company** FIG NO. **14**  
 COMMENCED: **14 Sept. 2012** COMPLETED: **23 Sept. 2012**  
 MUD DESIGNATED: **3435** MUD TYPE: **Chemical**  
 DRILLING TIME (KEPT FROM): **3600** TO: **5100**  
 SAMPLES SAVED FROM: **3620** TO: **5100**  
 SAMPLES EXAMINED FROM: **3620** TO: **5100**

ALL MEASUREMENTS FROM N.B.  
 CASING RECORD  
 Conductor None  
 Surface 8.56" @ 853  
 Production None

ELEVATIONS  
 KB: **3355 Ft.**  
 GL: **3345 Ft.**

LOG  
 TOP DATUM: **3247** TOP DATE: **+108** TOP DATUM: **3250** TOP DATE: **+105**  
 Base/Anhydrite: **3266** **+69** **3265** **+70**  
 Foraker: **3888** **-513** **3858** **-503**  
 Topoka: **4096** **-741** **4101** **-746**  
 Oread: **4217** **-862** **4221** **-866**  
 Lansing: **4310** **-965** **4315** **-960**  
 Base/Kansas City: **4589** **-1224** **4583** **-1228**  
 Cherokee: **4787** **-1432** **4787** **-1432**  
 Mississippi: **4995** **-1637** **4992** **-1637**  
 Total Depth: **5105** **-1750** **5100** **-1745**

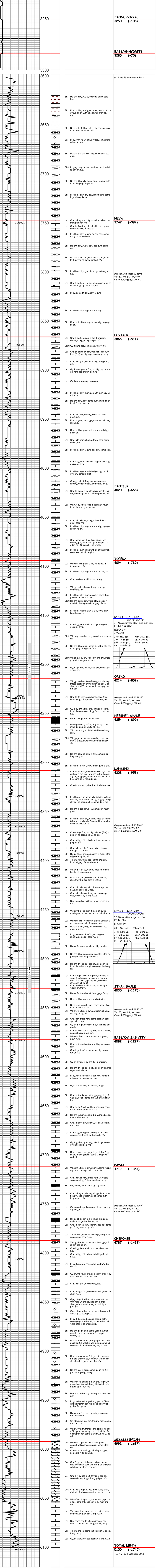
FORMATION NAME: **STONE CORRAL**  
 LOG: **Dual Induction**  
 SAMPLE: **Micro-resistivity**  
 COMP: **Sonic**



GEOLOGICAL SUPERVISION FROM: **3621** TO: **5100**  
 GEOLOGIST ON WELL: **Pail Guzman**  
 LOG TECH, INC.  
 Camp, Neutron Density

REMARKS  
 API: **15-153-20905-00-00**  
 Drilling Fluids: **Morgan Mud, Inc. (David Lines, engineer)**  
 Drill Stem Testing: **Trilobite Testing, Inc. (Mike Roberts, tester)**  
 Gas Trailer: **No Gas Trailer**  
 Reserve Pit Chlorides: **1,000 PPM**

DRILL TIME (MIN/FT)	DEPTH	LOG	SAMPLE DESCRIPTIONS	REMARKS
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