

**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY **ZAK ESPARE OIL CO.** ELEVATIONS  
 LEASE **Shak Tuss #1-23** KG 2873'  
 FIELD **Wildcat** DF \_\_\_\_\_  
 LOCATION **840 FMS, 12200 FEL** GL 2863'  
 SEC **23** TMS **13S** RGE **31W**  
 COUNTY **Grave** STATE **Kansas** Measurements Are All From **KB**  
 CONTRACTOR **HD Drilling Rig #2**  
 SPUD **5-21-11** COMP **6-2-11**  
 RTD **4:50P** LTD **4:44P** CASING  
 MUD UP **3:00P** TYPE MUD **Chemical** CONDUCTION **N/A**  
 SAMPLES SAVED FROM **3600'** to RTD SURFACE **8-5/8" @225'**  
 DRILLING TIME KEPT FROM **3600'** to RTD PRODUCTION  
 SAMPLES EXAMINED FROM **3600'** to RTD  
 GEOLOGICAL SUPERVISION FROM **3700'** to RTD  
 GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS      ELECTRIC LOG      SAMPLE

Anydrite	2335 (-4538)	2338 (-4535)
Heebner Shale	3886 (-1013)	3889 (-1016)
Austin	3930 (-1057)	3933 (-1060)
SARK	4168 (-1295)	4170 (-1297)
BRC	4240 (-1367)	4244 (-1371)
Fort Scott	4422 (-1549)	4423 (-1550)
Cherokee Shale	4448 (-1575)	4450 (-1577)
Mississippian	4566 (-1693)	4568 (-1695)

REMARKS Due to the positive drill stem tests it was decided to set production casing to further test the well.

Respectfully Submitted,

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 Petroleum Geologist

