

# KITT NOAH

PETROLEUM GEOLOGIST  
Kansas License #229



## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

ELEVATION: KB: 1819  
GL: 1812  
MEASURED FROM: KB

#15-141-20,461

FORMATION	TOP	LOG	DATUM
Anhydrite	925 (+894)		
B/Anhydrite	956 (+863)		
Topeka	2771 (-952)		
Heebner	3002 (-1183)		
Toronto	3025 (-1206)		
Lansing	3062 (-1243)		
Muncie Creek	3217 (-1398)		
RTD	3225 (-1406)		
LTD	3223 (-1404)		

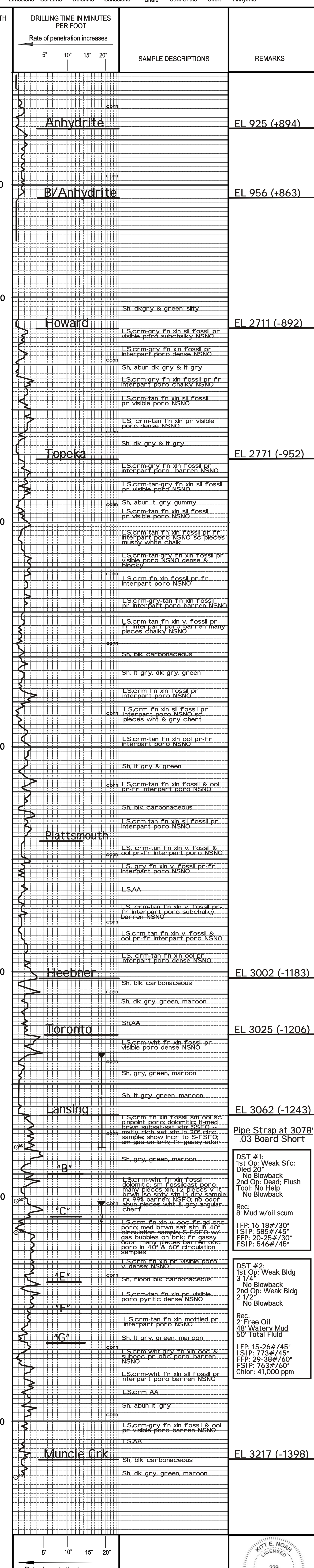
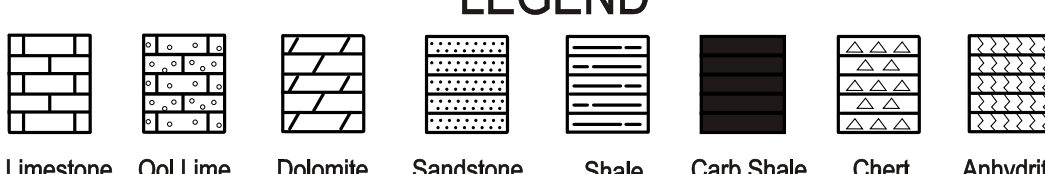
OPERATOR: Russell Oil, Inc.  
LEASE: Brown "A" WELL NO: #1-5  
LOCATION: 520FS & 1680FE  
SEC: 5 TWP: 10S RNG: 12W  
COUNTRY: Osborne STATE: Kansas

CASING RECORD:  
SURFACE: 8 5/8" set at 309' w/180 SX.  
PRODUCTION: 4 1/2" set at 3220' w/100 SX.  
DV/TOOL: \_\_\_\_\_

CONTRACTOR: Southwind Rig #4  
COMM: 6-3-2013 COMPL: 6-9-2013  
RTI: 3225 LTD: 3223  
SAMPLER SAVED FROM: 2700 to TD  
DRILLING TIME SAVED FROM: 2700 to TD  
SAMPLES EXAMINED FROM: 2700 to TD  
GEOLOGICAL SUPERVISION FROM: 2890 to TD  
MUD JFC: 2550 MUD TYPE: chemical  
Mudco - Gary Schindberger  
DRILL STEM TESTS TAKEN: 2  
TRILOBITE - Jason McLemore

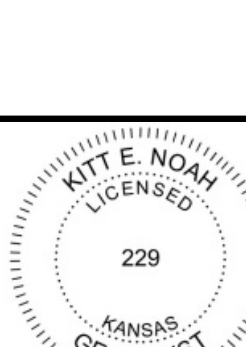
SURVEYS: Pioneer Energy Services  
Dual Compensated Porosity  
Microlog

### LEGEND



**DST #1:**  
1st Op: Weak Sfc;  
Died 20"  
No Blowback  
2nd Op: Dead; Flush  
Tool; No Help  
No Blowback  
Rec:  
8' Mud w/oil scum  
IFP: 16-18#/30"  
ISIP: 585#/45"  
FFP: 20-25#/30"  
FSIP: 546#/45"

**DST #2:**  
1st Op: Weak Bldg  
3 1/4"  
No Blowback  
2nd Op: Weak Bldg  
2 1/2"  
No Blowback  
Rec:  
2' Free Oil  
48' Watery Mud  
50' Total Fluid  
IFP: 15-26#/45"  
ISIP: 773#/45"  
FFP: 29-38#/60"  
FSIP: 763#/60"  
Chlor: 41,000 ppm



ELEVATION: KB 1819

OPERATOR: Russell Oil, Inc. LOCATION: 520FS & 1680FE  
LEASE: Brown "A" WELL NO: #1-5 SEC: 5 TWP: 10S RNG: 12W  
API: 15-141-20,461 FIELD: Sigle NW COUNTY: Osborne STATE: Kansas