

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR: **Russell Oil, Inc.**
 LEASE: **Ames** WELL NO.: **#6**
 LOCATION: **1820'FS & 710'FE**
 SEC.: **22** TWP.: **18S** RNG.: **11W**
 COUNTY: **Barton** STATE: **Kansas**

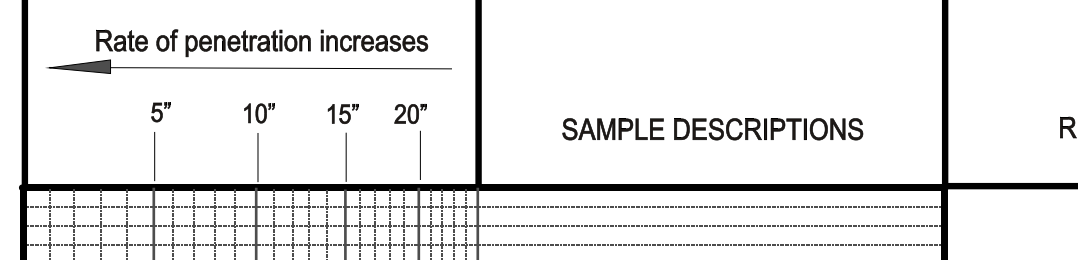
FORMATION top LOG DATE
Anhydrite 568 (+1218)
B/Anhydrite 588 (+1198)
Topeka 2636 (-850)
Heebner 2894 (-1108)
Toronto 2914 (-1128)
Douglas 2922 (-1136)
Brown Lime 3010 (-1224)
Lansing 3025 (-1239)
Muncie Creek 3153 (-1367)
B/KC 3288 (-1502)
Arbuckle 3311 (-1525)
R1D 3405 (-1619)
L1D 3405 (-1515)

CONTRACTOR: **Southwind Rig #1**
 COMM: **1-16-2013** COMPL: **1-25-2013**
 RFD: **3405** LTD: **3399**
 SAMPLES SAVED FROM: **2600 to TD**
 DRILLING TIME SAVED FROM: **2600 to TD**
 SAMPLES EXAMINED FROM: **2600 to TD**
 GEOLOGICAL SUPERVISION FROM: **2710 to TD**
 MUD UP: **2430** MUD TYPE: **chemical**
 MUDCO: **Rick Hughes**
 DRILL STEM TESTS TAKEN: **6**
 Trilobite - **Ryan Reynolds**

DRILLING TIME AND SAMPLE LOG
 CASING RECORD:
 SURFACE: **8 5/8" set at 562 w/250' sx.**
 PRODUCTION: **5 1/2" set at 3400 w/125' sx.**
 DI/TOL:

ELEVATION: **KB 1786**
 GL: **1776**
 MEASURED FROM: **KB**
 #15-009-25.794

LEGEND



DEPTH	LITHOLOGY	DRILLING TIME IN MINUTES PER FOOT		SAMPLE DESCRIPTIONS	REMARKS
		Rate of penetration increases			
550				com	
					Anhydrite com
					B/Anhydrite
				com	
2600					Topeka
				com	
2700					Plattsmouth
				com	
2800					Heebner
				com	
2900					Toronto
				com	
2922					Douglas
				com	
3000					Brown Lime
				com	
3025					Lansing
				com	
3100					Muncie Crk
				com	
3200					B/KC
				com	
3300					Arbuckle
				com	
3400					Arbuckle
				com	

DST #1:
 1st Op: Fair Bldg 5 1/2"
 No Blowback
 2nd Op: Fair Bldg 4 1/2"
 No Blowback
 Rec: 16' GIP
 60' Mud
 IFP: 12-14#/60"
 ISIP: 133#/30"
 FFP: 12-15#/60"
 FSIP: 157#/60"

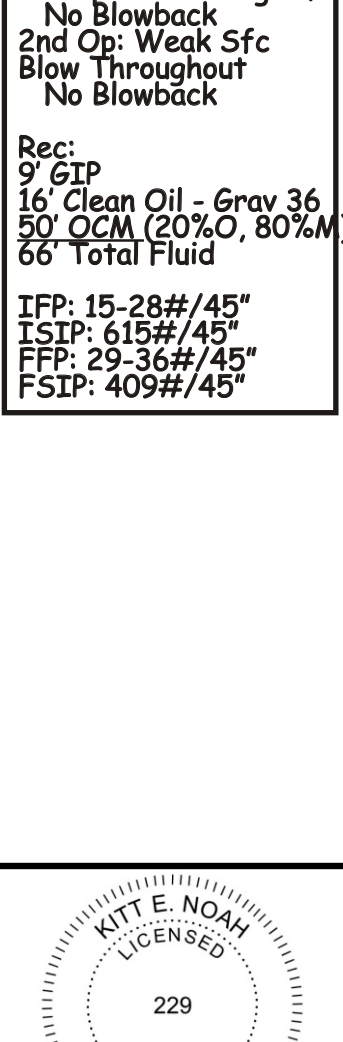
DST #2:
 1st Op: Weak Bldg 1/2"
 Blow Died 20"
 No Blowback
 2nd Op: Weak; Died 5"
 No Blowback
 Rec: 15' Mud
 IFP: 70-726#/30"
 ISIP: 731#/30"
 FFP: 86-695#/30"
 FSIP: 725#/30"
 MISRUN
 Tool Malfunction

DST #3:
 1st Op: Weak; Died 15"
 Flushed Tool; No Help
 2nd Op: Dead; Flush Tool; No Help
 No Blowback
 MISRUN
 Tool Malfunction --
 Discovered broken mandrel on tool.

DST #4:
 1st Op: BOB 30 sec.
 Blowback BOB 26"
 2nd Op: BOB Immed.
 Blowback BOB 24"
 Rec: 1040' GIP
 95' SOWCGM
 (30%G, tr O, 5%W, 20%M)
 270' OGMMW
 (40%G, 15%O, 25%W, 20%M)
 125' GOCM
 (20%G, 30%O, 50%M)
 335' GOCW
 (10%G, 30%O, 60%W)
 230' OG CW
 (10%G, 5%O, 85%W)
 1055' Total Fluid
 Total Fluid Breakdown:
 25%G, 22%O, 53%W
 IFP: 198-311#/30"
 ISIP: 420#/30"
 FFP: 322-378#/30"
 FSIP: 428#/30"
 Chlor: 77,000 ppm

DST #5:
 1st Op: Weak Bldg 1";
 Blow Died 32"
 No Blowback
 2nd Op: Dead
 No Blowback
 Rec: 10' Mud
 IFP: 14-18#/45"
 ISIP: 324#/45"
 FFP: 21-22#/30"
 FSIP: 158#/30"

DST #6:
 1st Op: Weak Bldg 5";
 No Blowback
 2nd Op: Weak 5fc
 Blow Throughout
 No Blowback
 Rec: 9' GIP
 16' Clean Oil - Grav 36
 50' OCM (20%O, 80%M)
 66' Total Fluid
 IFP: 15-28#/45"
 ISIP: 615#/45"
 FFP: 29-36#/45"
 FSIP: 409#/45"



ELEVATION: **KB 1786**

OPERATOR: **Russell Oil, Inc.** LOCATION: **1820'FS & 710'FE**
 LEASE: **Ames** WELL NO.: **#6** SEC.: **22** TWP.: **18S** RNG.: **11W**
 API: **15-009-25.794** FIELD: **Ames** COUNTY: **Barton** STATE: **Kansas**