

KITT NOAH

PETROLEUM GEOLOGIST
Kansas License #229



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

APR 15 1993
APR 23 1993
APR 29 1993

EL 1894
EL 1892
MEASURED FROM: KB

OPERATOR: Russell Oil, Inc.
LEASE: Addington "A" WELL NO: #3-14
LOCATION: 1380'FS & 2970'FW
SEC: 14 TWP: 15S RNG: 14W
COUNTY: Russell STATE: Kansas

CASINO RECORD
SURFACE: 8 5/8" set of
9 5/8" set of
PRODUCTION: 5 1/2" set
of 3 3/8" w/150 SK
DVT: 14W

CONTRACTOR: Southwind Rig #2
COMM: 8-27-2014 COMPL: 6-1-2014
RTD: 3400 LTD: 3399
SAMPLES SAVED FROM: 2400 to TD
DRILLING TIME SAVED FROM: 2400 to TD
SAMPLES EXAMINED FROM: 2400 to TD
GEOLOGICAL SUPERVISION FROM: 2400 to TD
MUD UP: 2200 MUD TYPE: identical
Mud - Rock Fluids
DRILL TESTS TRACK: 4
Tribitite - Late Lona

SAVERS: Pioneer Energy Services
Dual Induction
Borehole Compensated Sonic
Microlog

FORMATION	TOP	LOG	DEPTH
Arbucklie	884 (-1010)		
B/Arbucklie	916 (-978)		
Grandhaven	2444 (-550)		
Larkio	2514 (-520)		
Elmont	2786 (-822)		
Howard	3013 (-1119)		
Heebner	3028 (-1134)		
Lansing	3076 (-1182)		
Muncie Creek	3219 (-1325)		
B/KC	3310 (-1416)		
Arbucklie	3326 (-1432)		
L/D	3400 (-1506)		
L/D	3599 (-1505)		

LEGEND

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DEPTH	DRILLING TIME IN MINUTES PER FOOT Rate of penetration increases	SAMPLE DESCRIPTIONS	REMARKS
884			EL 884 (+1010)
916			EL 916 (+978)
2444			EL 2444 (-550)
2514			EL 2514 (-620)
2577			EL 2577 (-683)
2716			EL 2716 (-822)
2786			EL 2786 (-892)
3013			EL 3013 (-1119)
3028			EL 3028 (-1134)
3076			EL 3076 (-1182)
3219			EL 3219 (-1325)
3310			EL 3310 (-1416)
3326			EL 3326 (-1432)
3400			EL 3400 (-1506)
3599			EL 3599 (-1505)

DST #1:
1st Op: Weak Bldg 10"
No Blowback
2nd Op: BOB 30"
No Blowback
Rec:
90' GIP
2' Free Oil
30' OCM
(20% O, 80%M)
62' MCW w/oil spots
(60%W, 40%M)
94' Total Fluid
IFP: 18-38#/45"
ISIP: 651#/45"
FFP: 43-57#/45"
FSP: 632#/45"
Chlor: 38,000 ppm

Pipe Strap at 2494'
.08 Board Long

DST #2:
1st Op: Weak Bldg 1"
No Blowback
2nd Op: Weak Bldg 3/4"
No Blowback
Rec:
30' Mud w/oil spots
IFP: 24-24#/60"
ISIP: 316#/60"
FFP: 29-33#/60"
FSP: 213#/60"

DST #3:
1st Op: BOB 2"
2 3/4" Blowback
2nd Op: BOB 2"
Weak 5fc Blowback
Rec:
212' GIP
296' Gassy Oil - Grav 36
(20%G, 80%O)
1280' Gassy Oil
(50%G, 60%O)
192' OCMW
(10%G, 10%W, 60%W, 10%M)
1768' Total Fluid
IFP: 80-438#/30"
ISIP: 1096#/30"
FFP: 443-676#/30"
FSP: 1099#/30"
Chlor: 7,500 ppm

DST #4:
1st Op: BOB 4"
No Blowback
2nd Op: BOB 4"
No Blowback
Rec:
5' Clean Oil
45' VSOCWM
(8%O, 2%W, 90%M)
1024' Water
1074' Total Fluid
IFP: 34-282#/30"
ISIP: 1119#/30"
FFP: 284-483#/30"
FSP: 1118#/30"
Chlor: 28,000 ppm



ELEVATION: KB 1894
OPERATOR: Russell Oil, Inc. LOCATION: 1380'FS & 2970'FW
LEASE: Addington "A" WELL NO: #3-14 SEC: 14 TWP: 15S RNG: 14W
APR 15-167-23,963 FIELD: Trapp COUNTY: Russell STATE: Kansas