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Well Name: Maddog #1-14
 Location: 398' FSL & 446' FEL Sec. 14 T33S R26N, Meade County, KS
 API No.: 15-119-21367
 Field Name: Wlloca
 Spud Date: 05/17/2014 Drilling Completed: 05/29/2014
 Bottom Hole Location: As above
 Ground Level: 2134' KB Elevation: 2145'
 Logged Interval: 4150'
 Drilling Fluid Type: Freshwater/Gel to 3000', Chemical/Gel to 7350'

DST #1 Pawnee Limestone 5100'-5145' 30"-30"-30"-60" Initial Open: Weak blow, less than 1", Final open: Fair blow built to 4", No blow back either shut in, Rec. 20' VSOCM (1% O₂, 99% WH), 290' GIP, IHP 2556#, IFP 20-29#, ISIP 554#, PFP 27-39#, FSIP 507#, PHP 2450# BHT 117 Deg. F

DST #2 Chester 'B' 5426-5477 15"-45"-45"-90", Initial Open: Strong blow, bottom of the bucket immediately, gas to surface in 13 minutes; initial shut-in, no blow back. Final Open: Strong blow, bottom of the bucket immediately, gauged gas as follows with the associated Pressures:

Minutes	PSIG	Orifice	MCFD	IHP	2809#
10	17#	1/4"	197.8	IHP	221-144#
20	17.5#	1/4"	200.9	ISIP	198#
30	16#	1/4"	191.6	PFP	78-7#
40	15#	1/4"	185.3	FSIP	1967#
45	15#	1/4"	185.3	PHP	2550#

Recovery consisted of 80 foot of water cut mud, 7% water, 93% mud. Chlorides 67,000 ppm.

DST #3 Chester 'C' 5476-5525 15"-45"-30"-60" Initial Open: Fair blow built to 5", Final open: Weak blow built to 3", No blow back during shut-in. Rec. 200' GIP, 20' Mud, IHP 2809#, IFP 24-30#, ISIP 157#, PFP 25-30#, FSIP 171#, FSIP 2702# BHT 122 Deg. F

DST #4 Spargen-Warshaw 6475-6520 15"-45"-45"-90" Initial Open: Strong Blow, BOB 8 1", Final open: Strong Blow, BOB immediately, GTS 44" No blow back during either shut-in. Rec. 20' Mud, IHP 3402#, IFP 24-37#, ISIP 2115#, PFP 22-39#, FSIP 2324#, BHT 122 Deg. F

COMMENTS

RODA set 80' of 20" Conductor at 72' KB. 05/17/14 MIRR Sterling Drilling Rig 2, Spud 12 Surface hole at 10:30 PM. To 1447'. 05/18/14 WOC at 1447' Driller cut surface short by 42' Laid down one joint of surface pipe. 05/19/2014 Drilling at 2027' 05/20/2014 Drilling at 3397'. 05/21/2014 Drilling ahead at 4862'. 05/22/2014 Trip out with test tool at 5145' after DST 1. 05/23/2014 Drilling at 5370'. 05/24/2014 Trip in hole at 5477' after DST 2. 5478' Drilling ahead. 05/25/2014 Drilling ahead at 5538'. 05/26/2014 Drilling ahead at 6424'. 05/27/2014 Trip in hole with bit at 6520'. 05/28/2014 Drilling ahead at 7000'. 05/29/2014 Circulating for samples at RTD of 7350'.

20" Conductor set at 72' (KB). New 8 5/8" (24#) set at 1447' (KB) with 330 sacks A-Conn: 2# CC, # Poly and tailed in with 150 sacks Class C. Plug down at 6:00 AM, 05/18/14.

Set new 5 1/2" (17#) Production Casing at 7149' with 350 sacks of "Loeb Blend" cement (Basic Energy Services) PD at 9:00 AM 05/31/2014. Set port collar at [].

Surveys: 1/4 deg at 5150, 1/4 degree at 6520.

Pipe strap at DST #1. 1.19' Short to board. No correction made to board.

Encountered a 12 Unit Gas Kick in the Council Grove 'A' porosity from 2742 to 2750.

Log tops: Heebner Shale 4214 (-2069), Lansing 'A' 4392 (-2247), Stark Shale 4876 (-2731), Marston 5001 (-2856), Pawnee 5113 (2968), Chester 5430 (-3285), St. Genevieve (5752 (-3607), St. Louis 5942 (-3797), Spargen 6356 (-4211), Simpson Shale 7064 (-4919), Atzackule 7123 (-4978)

After review of Electric Logs, Drilling test results and samples description the operator has elected to set new 5 1/2" Production Casing for completion in the Spargen and Chester 'B'.



