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Well Name: Leonard 2-21
 Location: 335' E1/4 695' FEL Sec. 21 T29S R32W, Haskell County, KS
 APT No.: 15-081-22053
 Field Name: Lockport
 Spud Date: 02/13/2014 Drilling Completed: 02/22/2014
 Bottom Hole Location: As above
 Ground Level: 2908' KB Elevation: 2919'
 Logged Interval: 4000' TO: 5640'
 Drilling Fluid Type: Freshwater/Gel to 3000', Chemical/Gel to 5640'

DST #1 Morrow 5253'-5355' 15"-45"-45"-90" Initial Open: Bottom of bucket in 7 min. Bled off for 5 min, no return blow. Final open: Built to 8" blow in 25 minutes. Slowly died to 6" blow, bled off for 5 min, no return blow. Rec. 20" Mud. IHP 266#, IFP 29-38#, ISIP 55#, FFP 38-44#, FSIP 60#, FSIP 2629# BHT 131 Deg. F

DST #2 St. Louis 'A' 5476-5530 15"-45"-45"-90" Initial Open: Bottom of the bucket in 1 min., Bled off for 10 min and B.O.B. immediately upon closing 2" valve. Final open: B.O.B. immed upon open. Ga gas:

Min	PSIG	Orifice	Rate
15	20	1/4"	232
25	30	1/2"	266
35	30	3/4"	300
45	30	1/2"	300

Rec. 125' Mud, 5289' Gas in pipe, IHP 2748#, IFP 109-1151#, ISIP 965#, FFP 90-96#, FSIP 960#, FHIF 2710# BHT 133 Deg. F

COMMENTS

02/13/2014 MIRU Sterling Drilling Rig 2, Spud 12 1/4" Surface hole at 09:15 PM. 02/14/2014 Drilling at 665'. 02/15/2014 Short Trip at 1837'. 02/16/2014 WOC 1837'. 02/17/2014 2555' Drilling ahead with 7 7/8" PDC Bit. 02/18/2014 3752'. Drilling ahead. 02/19/2014 4870' Drilling ahead. 02/20/2014 5355'. Tripping out for DST #1. 02/21/2014 5530'. TOH for DST #2. 02/22/13 5640' TOH for logs.

Set 8 5/8", 24# Surface casing at 1837' with 650 sacks Class 'A' Cmt, 6% gel, 3% CC, 25 1/4 Flo Seal tailed in w/200 sacks Class 'A', 3% CC, 25#/sk flo Seal (Allied Energy Services).

Surveys: 1.0 Deg. At 1837'; 3/4 Deg. At 5355'; 1 1/4 Deg. At 5530'.

E-log Formation Tops: Heebner 4152, Lansing 'A' 4254, LKC 'H' 4499, Marmaton 4808, Cherokee Sh 4952, Atoka 5055, Morrow Sh 5264, Chester 5396, St. Genevieve 5428, St. Louis 5502

