

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Butkus "2" State #1
SL: 3300' FSL 900' FEL Section 2-T21S-R34E
PBHL: 3350' FSL 685' FEL Section 2-T21S-R34E
Lea County, New Mexico

Elevation: 3704' GR

Proposed Total Depth: 13,423' MD / 13,400' TVD

Estimated Formation Tops

Rustler	1794'
Salt	1874'
Yates	3722'
Delaware	5854'
Bone Spring	8115'
Wolfcamp	11,360'
Strawn	12,020'
Atoka	12,270'
Morrow Lm	12,500'
Morrow Clastic	12,930'
Morrow "C"	13,170'
Total Depth	13,400'

Casing/Cement Program

<u>Hole Size</u>	<u>Casing Size/Weight/Grade</u>	<u>Setting Depth</u>	<u>Cement</u>	<u>Est. TOC</u>
	20" Conductor pipe	40'	ready mix	surface
17-1/2"	13-3/8" 61# J-55 ST&C	1350'	Lead: 850 sx 35:65 Poz: Class C + 6% D20+ 0.25 pps D29 Tail: 235 sx Class C+ 2% S1 +0.25 pps D29	surface
12-1/4"	9-5/8" 40# N-80/K-55 LT&C	5750'	Lead: 925 sx 35:65 Poz: Class C + 6% D20+0.25 pps D29 Tail: 200 sx Class C Neat	1200'
8-1/2"	7" 26# HCP-110 LT&C	11,823'	860 sx 50:50 Poz: Class H + 6% D44 +2% D20+0.4% D59	4800'
6-1/8"	4-1/2" 13.5# HCP-110 LT&C liner 11,500'-13,400'	13,423'	150 sx Class H+1 gps D600+0.03 gps M45+0.1 gps D801+0.05 gps D604AM	11,300'

Drilling Fluids Program

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Comments</u>
0-1350'	8.4-8.8	32-34	NC	fresh gel, caustic, paper
1350'-5750'	9.9-10.0	28-30	NC	cut brine water, lime, paper Star NP-110
5750'-11,823'	9.0-9.5	28-32	NC	fresh/cut brine, caustic, paper Star NP-110