

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Bimini "13" State #4
2225' FNL 2310' FWL Section 13-T17S-R35E
Lea County, New Mexico

Elevation: 3919' GR

Proposed Total Depth: 7200'

Estimated Formation Tops

Rustler	1760'
Base of Salt	2050'
Seven Rivers	3480'
Queen	4070'
Blaine	6930'

Casing/Cement Program

<u>Hole Size</u>	<u>Casing Size/Weight/Grade</u>	<u>Setting Depth</u>	<u>Cement</u>	<u>Est. TOC</u>
26"	20" Conductor pipe	40'	ready mix	surface
12-1/4"	8-5/8" 32# J-55 ST&C	1800'	Lead: 400 sx 35:65 Poz: Class C + 6% D20+ 0.25 pps D29+5% D44 Tail: 200 sx Class C+ 2% S1	surface
7-7/8"	5-1/2" 17# J-55 LT&C	7300'	1000 sx 50:50 Poz: Class H + 5% D44 +2% D20+0.4% D59+ 0.2% D65	1800'

Drilling Fluids Program

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Comments</u>
0-1800'	8.6-9.3	32-35	NC	spud mud, paper
1800'-6500'	9.9-10.0	28-29	NC	brine, paper, lime
6500'-7300'	10.0-10.1	30-31	10-15 cc	brine, caustic, starch

Blowout Prevention Program- Attachment to Form C-101

0'-1800' None

1800'-7300' 11" 3000# double ram type preventers, 3000# annular preventer and rotating head body. Test all rams choke manifold, kill line upper and lower kelly valves to 3000 psi. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system.

Any equipment failing to test satisfactorily, will be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log. The BOP's will be maintained ready for use until drilling operations are completed. BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.