

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Leatherstocking "18" State Com #1
1310' FNL 1310' FWL Section 18-T18S-R28E
Eddy County, New Mexico

Elevation: 3583' GR

Proposed Total Depth: 10,500'

Estimated Formation Tops

Yates	377'
Queen	1350'
San Andres	2210'
Glorieta	3806'
Wolfcamp	7070'
Cisco	7850'
Strawn	9000'
Atoka	9650'
Morrow Clastics	10,000'
L. Morrow Sd	10,110'
Missippian	10,235'
Total Depth	10,500'

Casing/Cement Program

Hole Size	Casing Size/Weight/Grade	Setting Depth	Cement	Est. TOC
26"	20" Conductor pipe	40'	ready mix	surface
17-1/2"	13-3/8" 54.5# J-55 ST&C	450'	530 sx 15:85 Poz: Class C + 0.25 pps D29+2% S1+2% D20	surface
12-1/4"	9-5/8" 32# J-55 ST&C	2700'	Lead:750 sx 35:65 Poz: Class C + 6% D20+ 0.25 pps D29 Tail: 250 sx Class C+ 2% S1 +0.25 pps D29	surface
8-3/4"	5-1/2" 17# N-80 LT&C	10,500'	1750 sx 50:50 Poz: Class H + 6% D44 +2% D20+0.4% D59	2600'

Drilling Fluids Program

Depth	Mud Weight	Viscosity	Fluid Loss	Comments
0-450'	8.4-8.6	32-34	NC	spud mud
450'-2700'	9.0-9.2	28-29	NC	cut brine water, paper, caustic
2700'-8800'	8.4-9.3	28-29	NC	cut brine, caustic, paper
8800'-10,500'	9.3-9.6	34-38	<15 cc	xantham gum, starch

Blowout Prevention Program- Attachment to Form C-101

0'-450'	None
450'-2700'	20" 2000# annular preventer system.
2700'-10,500'	13-5/8" 5000# double ram type preventers, 5000# 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.