PROPOSED WELL PLAN OUTLINE

WELL NAME: SEMU #166
LOCATION: 490' FSL & 1311' FEL, Sec 23, T20S, R37E, Lea County, NM

Ground Level: 3560'
Kelly Bushing: 11' AGL

Depth MD	FORMATION TOPS (from GL)	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING PROGRAM	FRAC GRAD	FORM PRES. GRAD.	Mud Weight & Type	Days
0		Possible Hole Enlargement & Sloughing		12-1/4"			Less than 8.3	8.4 - 9.5 Fresh	
1000									
	Top Salt @ 1,400'				8-5/8", 24#, J-55 ST&C @ 1,500'				3
		Washouts in Salt Section		7-7/8"	Circulate Cement			10 Brine	
2000							Less than 8.4		
	Base Salt @ 2,550'		Mud Loggers @ 2,600'						
	Yates 2,670'		H2S monitor equipment on @ 2,600'						
	7 Rivers 2,900'								
3000									
	Queen 3,450'								
	Penrose 3,550' Grayburg 3,760'								
4000	San Andres 3,855'								
		Mud loss in San Andres is likely. Possible loss of returns.							
5000									
	Glorietta 5,140'	Possible differential sticking thru Glorietta Possible lost returns.							8
	Blinebry 5,720'								
6000									
	Tubb 6,260'								15
	Drinkard 6,605'								
7000	Abo 6,910'		First Log Run: GR-CAL-DLL-MLL-SGR-SONIC FDC-CNL-PE : TD to 2000' Pull GR-CNL-Cal to Surf SGR interval to be chosen					10 ppg Starch Gel	
	Strawn @ 7,635'	Lost of full returns is likely upon drilling into Strawn. Offset data from: SEMU #158 SEMU Penn Federal #9	Second Log Run: 60 rotary sidewall cores Possible Third Run: FMI imaging log		5-1/2", 17#, J-55 LT&C set @ 8,150' Circulate cement either single or 2 stage				22
8000	TD @ 8,200'								

DATE: 03-Jan-02

Joe Huck, Geologist

APPROVED

YP Ortez, Drilling Engineer

Rob Lowe, Reservoir Engineer