

REVISED  
SUPPLEMENTAL DRILLING DATA

Pogo Producing Company  
Pure Gold "D" Federal No. 1  
660' FWL & 1980' FNL Sec. 28-23S-31E  
Eddy County, New Mexico

1. SURFACE FORMATION: Sand soils of Quaternary Age.

2. ESTIMATED GEOLOGIC TOPS:

Delaware	4135'	Strawn	13065'
Cherry Canyon Sand	5060'	Atoka Clastics	13230'
Bone Spring	7965'	Morrow Clastics	14270'
Wolfcamp	11280'	Total Depth	15000'

3. POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Water:	Above 300'
Oil:	Cherry Canyon and Bone Springs
Gas:	Wolfcamp, Atoka, Morrow

4. PROPOSED CASING PROGRAM:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Remarks</u>
20"	0'-530'	94#	H-40	BTC	Circ cement
13 3/8"	0'-2200'	61#	K-55	STC	Circ cement
	2200'-3400'	61#	S-80	STC	
	3400'-4135'	68#	S-80	STC	
9 5/8"	0'-1750'	46#	N-80	BTC	Bring cement top above all production zones
	1750'-4750'	46#	N-80	LTC	
	4750'-7050'	40#	S-95	LTC	
	7050'-9750'	43.95#	S-95	LTC	
	9750'-11430'	47#	S-95	LTC	
7"	11050'-14350'	32#	LS-110	LTC	Circ cement
5"	14050'-15000'	18#	N-80	FL4S	Circ cement

5. PRESSURE CONTROL EQUIPMENT: Blowout preventer stack will consist of an annular-type preventer and two ram-type preventers with 10,000 psi working pressure. A sketch of BOP is attached.

6. PROPOSED MUD PROGRAM:

0 - 530'	Spud mud w/paper added to control seepage. Add LCM as necessary if loss of circulation becomes a problem.
530 - 4135'	Brine water.
4135 - 11430'	Cut Brine water