

**APPLICATION TO DRILL**  
**PLAINS PETROLEUM OPERATING COMPANY**  
**E. C. HILL "B" Federal #20**  
**1300' FSL & 2280' FEL**  
**Sec 34 (O), T23S, R37E**  
**Lea County, New Mexico**  
**Lease No. NMLC 064118**  
**May 8, 1996**

In addition with Form 3160-2, Application to Drill the above well, Plains Petroleum Operating Company submits the following in accordance with BLM requirements.

**1. ESTIMATED GEOLOGICAL MARKERS**

GL: 3261'                      KB: 3273'

<u>FORMATION</u>	<u>TOP</u>	<u>SS</u>
Penrose	3404'	-137'
Glorietta-Paddock	4927'	-1680'
Blinebry	5307'	-2060'

**2. CASING DETAIL**

	Casing Size OD	Interval	Length of Interval	Weight #/Ft	Interval Weight	Casing Grade	Joint
Intermediate	8-5/8"	0'- 1175'	1175'	24#/ft	28,200	K-55	STC
Production	5-1/2"	0'- 5850'	5850'	15.5#/ft	90,975	K-55	LTC
Tubing	2-7/8"	0'- 5800'	5800'	6.4#/ft	27,260	J-55	EUE

**3. CEMENTING & FLOAT EQUIPMENT DETAIL**

WELL DATA	SURFACE	PRODUCTION (TD 5850')
Depth	1175'	5850'
Casing Size	8-5/8"	5-1/2"
Hole Size	12-1/4"	7-7/8"
Desired Fill	Surface	4900', Surface
Hole Volume	485 Ft <sup>3</sup>	165 Ft <sup>3</sup> , 872 Ft <sup>3</sup>
Recommended Volume	970 FT <sup>3</sup>	247 Ft <sup>3</sup> , 1308 Ft <sup>3</sup>
DV Tool Depth	N/A	2900'