

APPLICATION TO DRILL
PLAINS PETROLEUM OPERATING COMPANY
E. C. HILL "B" Federal #21
2580' FNL & 900' FEL
Sec 34 (H), T23S, R37E
Lea County, New Mexico
Lease No. NMLC 064118
May 3, 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: 3271' KB: 3283'

<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 ³	165 Ft ³ , 872 Ft ³
Recommended Volume	970 FT ³	247 Ft ³ , 1308 Ft ³
DV Tool Depth	N/A	2900'