

APPLICATION TO DRILL

PLAINS PETROLEUM OPERATING COMPANY  
E. C. HILL FEDERAL 'B' #10  
985' FSL. & 660' FWL, Sec 35M, T23S, R37E  
Lea County, New Mexico  
Lease No. 064118  
July 16, 1993

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: 3251'

<u>FORMATION</u>	<u>TOP</u>	<u>SS</u>
Salt	1185'	+2086'
Yates	2493'	+ 931'
Queen	3230'	+ 41'
Tubb	5900'	-2029'
Devonian	7132'	-3861'
Silurian	7730'	-4459'
Fusselman	8098'	-4827'
Montoya	8405'	-5134'
Simpson	8732'	-5461'
McKee	9090'	-5819'
Ellenburger	9555'	-6284'

**2. CASING DETAIL**

	<u>CASING SIZE OD</u>	<u>INTERVAL</u>	<u>LENGTH OF INTERVAL</u>	<u>WEIGHT #/FT</u>	<u>INTERVAL WEIGHT</u>	<u>CASING GRADE</u>	<u>JOINT</u>
Surface	13-3/8"	0' - 150'	150'	48#	16,900	H 40	STC
Intermediate	8-5/8"	0' - 120'	120'	32#	3,840	K-55	STC
	8-5/8"	120' - 2400'	2280'	24#	54,720	K-55	STC
	8-5/8"	2400' - 3000'	600'	32#	19,200	K-55	STC
Production	5-1/2"	0' - 1000'	1000'	17#	17,000	K-55	LTC
	5-1/2"	1000' - 6500'	5500'	15.5#	85,250	K-55	LTC
	5-1/2"	6500' - 9325'	2825'	17#	51,425	K-55	LTC
Tubing	2-7/8"	0' - 9700'	9700'	6.5#	63,050	N 80	BUE