Attachment to Form 3160-3 (APD)
Union Texas Petroleum
Neste Williams Fed. #2
Eddy County, New Mexico
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## IV. Casing and Cementing Program

## A. Casing Program

<u>Depth</u>	Hole <u>Size</u> !7'/2"	Csg. <u>Size</u>	<u>Wt</u>	<u>Grade</u>	Coupling	Type
0 - 650' 0 - 2100' 2100-3000' 0 - 5300' 5300-8350'	14-3/4" 10-5/8""" 10-5/8"""	11-3/4" 8-5/8" 8-5/8" 5-1/2" 5-1/2"	42# 24# 24# 17# 17#	H-40 K-55 S-80 K-55 L-80	STC STC STC LTC LTC	Surf. Int. Int. Prod. Prod.

## B. Cementing Program

<u>Casing</u>	Top of Cement	Cement Type	<u>Sacks</u>
Surf. Int. Prod.	Surface Surface Surface	Class C w/2% CaCl <sub>2</sub> Lead: Lite w/10% <sup>2</sup> salt Tail: Class C Neat Lead: 50/50 Poz H w/2% Gel Tail: Class H w/3% KCl	387 385 325 630 429

## V. Drilling Fluids Program

A.	Hole	<u>ppq</u>	VIS	WL	Comments
<u>Depth</u>	<u>Size</u>	M₩	sec	cc/30 min	
0- 500′ 500-3000′ 3000-7000′ 7000-8350′	7-7/8"	8.5-9.2 9.8-10.2 8.8-9.4 9.0-9.4	35-45 30-32 28-30 30-32	NC NC NC 15-20	Fresh wtr. spud mud Brine w/salt gel Cut brine, lime Cut brine w/salt gel and starch

- B. The mud system volume will be approximately 800 barrels.
- C. No weighting material should be necessary, but barite will be kept on site.
- D. The level of the mud pits will be monitored visually, and a flow rate indicator will be installed.
- E. Chemicals kept on site to control a possible H<sub>2</sub>S influx are sodium and calcium hydroxide to raise the pH and zinc carbonate as a scavenger.