Drilling Plan YATES PETROLEUM CORPORATION Conoco "AGK" Federal Com #14 660' FSL and 660' FWL Section 15-T20S-R24E Eddy County, New Mexico

Anticipated Drilling Time <u>17</u> days.

Hole Size: <u>14 3/4"</u> Depth To: <u>1150'</u>

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Casing Size: <u>9 5/8"</u> Setting Depth: <u>1150'</u>

Casing Description: 9 5/8", 36#, 8R, J55, ST&C. Cement Slurry: 700 sx. "Class C Lite" w/1/2# Cellocel, 10# Gilsonite and 3% CaCl2. Wt 12.7 yield 1.84 + 200 sx. "Class C" and 2% CaCl2. Wt. 14.8 yield 1.32. Cement circulated to surface. Drilling Plan YATES PETROLEUM CORPORATION Conoco "AGK" Federal Com #14 660' FSL and 660' FWL Section 15-T20S-R24E Eddy County, New Mexico

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All casing in New Minimum Design Factors: Collapse 1.125, Burst 1.0, Tensile Str. 1.80.

Hole size: <u>8 3/4</u>" Depth To: <u>8300'</u> Casing Size <u>7"</u> Setting Depth: <u>8300'</u>

Casing Description: 0 - 600', 7", 26#, N-80, 8R, LT&C, 600' - 3200', 7", 26#, J55, 8R, LT&C, 3200' - 6950', 7", 23#, J-55, 8R, LT&C, 6950' - 8200', 7", 26#, J55, 8R, LT&C. All casing is New Minimum Design Factors: Tensile Strength 1.8, collapse 1.125, Burst 1.0

Cement Slurry: Will be cemented in two stages. Stage Tool set approximately 5500'. First stage: 500 gals sure bond, 500 gals - WMWI, 700 sx. "Class H" w/5# sack CSE, .659. CF-14, 1/2# Cellocel & 10# Gilsonite. Wt. 15.1, yield 1.34. Calculated to fill 2700 linear feet. Second stage: 775 sx "Lite C" w/4% CF-14, 5# sack Salt. Wt. 12.4 yield 1.98. Tail w/100 sx. "H" neat Wt. 15.6. Yield 1.18, circulated to surface.

All casing is New Minimum Design Factors: Collapse 1.125, Burst 1.0, Tensile 1.80.

Anticipated Drilling Mud Program:

From <u>spud</u> to <u>1150'</u> Minimum Properties: Mud Weight 8.6 - 9.6. Viscosity 32 sec./1000cc. Water loss N/C cc. Mud will be checked tourly by rig personnel. Sufficient quantities of mud will be kept on location to maintain minimum properties.

From <u>1150'</u> to <u>4500'</u> Fresh Water. Mud weight 8.4. Viscosity 28 sec./1000 cc mud. Water loss - No control. Mud to be checked tourly by rig personnel. Sufficient quantities of mud on hand to maintain mud properties listed.

From <u>4500'</u> to <u>8200'</u> Cut Brine, Mud weight 9.1 - 9.4 ppg. Viscosity 28 sec./1000cc. WL - No control. Mud to be checked tourly by rig personnel. Sufficient quantities of mud on hand to maintain minimum properties listed.