

Reservoir Fill-up Volume

Zone	Pay ft	Porosity	Water Saturation	Initial FVF RB/BO	OOIP/AF BO/Ac-ft	Area Acres	OOIP MBO	Pore Volume MBBLS
Blinebry	48	10.70%	30.0%	1.45	19236	2080	40010	82878
Drinkard	24	10.80%	26.5%	1.45	10197	1343	13695	27006
Total	72		28.8%			2080	53705	109884

*Blinebry/Drinkard Porosity and Water saturation based on log analysis of NEDU infill wells with full log suites using 6% porosity cutoff and 50% Sw cutoff.

	Blinebry	Drinkard	Total	
Primary Recovery, MBO	0	0	8262	
Remaining Reserves, MBO	0	0	190	
Ultimate Prim Recovery, MBO	0	0	8452	
Current Recovery Factor, %				15% Ultimate Prim Rec/OOIP
Current FVF, RB/STB				1.15 Based on est resvr press of 300 psi
Current Oil Saturation, %				48% $So = (1 - Npp/Nob)(Bo/BoBP)(1 - Swc)$
Current Gas Saturation, %				23% $Sg = (1 - Swc - So)$
Fill up volume, Mbbls				25727 $Wif = (Pore Vol * Sg)$
Avg Inj Rate/well, BWPD				489 Analogy to NEDU
No. of Inj wells				17 Proposed unit development
Total Injection, BWPD				8313 Avg Inj Rate x # of inj wells
Fillup time, yrs.				8.5 Fill up volume/total inj rate
80 acre 5 spot sec/primary ratio				0.41 Analogy to NEDU
Secondary reserves, MBO				3465 Ultimate Prim Rec x sec/prim ratio

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 13503 & 04 Exhibit No. 25
Submitted By:
Apache Corporation
Hearing Date: June 16, 2005