## S. E. Bluff Upper Carter Oil Unit **Oil Reserves with Waterflood**

Current Oil Reservoir Size (Acres) (Incl. Gas Cap)	407.44	
Original Oil Reservoir Size (Acres)(Excl. Gas Cap)	387.31	
Current Oil Reservoir Volume (Net Oil Pore Volume -Ac Ft)	338.936	
Original Oil Reservoir Volume (Net Oil Pore Volume -Ac Ft)	328.350	
Current Avg Oil Reservoir Thickness (Porosity -Ft)	0.8319	
Original Avg. Oil Reservoir Thickness (Porosity Ft.)	0.8478	
Avg. Porosity	12.8%	
Water Saturation (Sw)	18%	
Oil API GR	34.0	
Original Reservoir Bbl/STB (Bo)	1.05	
Residual Oil Saturation (Sor)	30%	
Cumulative Oil Production (3/05)	103,228	STB
Cumulative Gas Production (3/05)	518,813	MCF
Cumulative Water Production (3/05)	3560	Bbls

$$OOIP = (7758)(PorosityAc Ft.)(1-Sw)$$
  
Bo

OOIP = (7758)(328.35)(.82) = 1,989,350 STB1.05

Primary Recovery (3/31/05) = 103,228 = 5.19%1,989,350

Est. Rec. Factor w/Secondary = <u>1-Sw-Sor</u> x S.E. = <u>.52</u> x .40 = 25.37% 1-Sw .82

Est. Recovery w/Secondary =  $1,989,350 \times .2537 = 504,698 \text{ STB}$ 

Est. Primary Recovery (6% OOIP) = 119,361 STB

Est. Secondary Recovery = 504,698 - 1	19,361 = 385,337 STB
STATE OIL AND GAS BOARD	
Exhibit No. 1700	Exhibit #17 Docket #2-6-08-13, #2-6-08
Petition By Augher Caller	#2-6-08-15 To the Testimony of:
Item No Date	Emil H. Pawlik
Testimony Of <u>Manual</u>	
Received By	

, #2-6-08-14, Jan lik