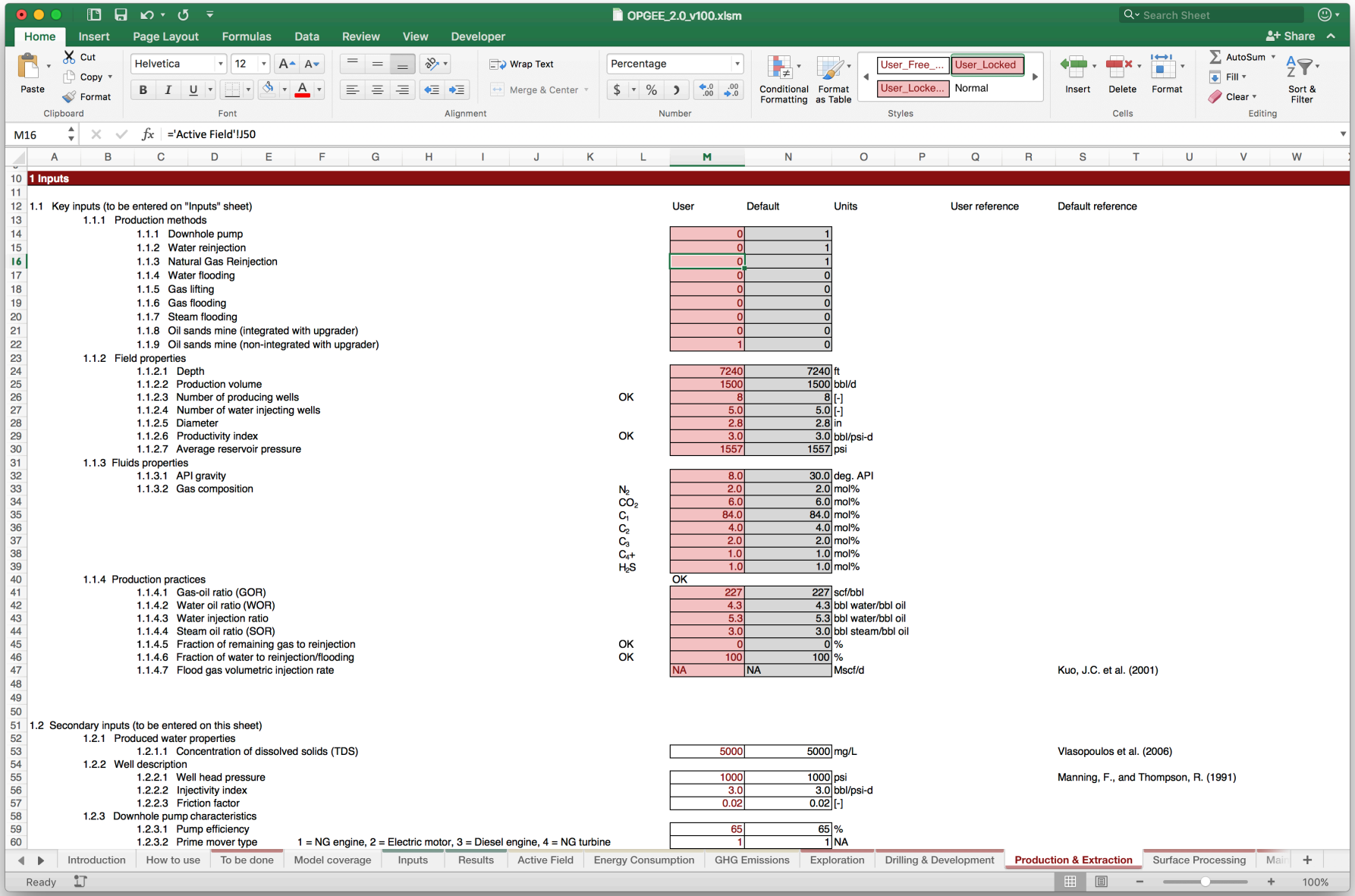

OPGEE_2.0_v100.xlsm

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Percentage — Number

Conditional Formatting Format as Table — Styles: User_Free_... User_Locked User_Locke... Normal

Insert Delete Format — Cells

AutoSum Fill Clear Sort & Filter — Editing

M16 ='Active Field'!J50

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
10	**1 Inputs**																						
11																							
12	1.1 Key inputs (to be entered on "Inputs" sheet)												User	Default	Units		User reference		Default reference				
13		1.1.1 Production methods																					
14			1.1.1 Downhole pump										0	1									
15			1.1.2 Water reinjection										0	1									
16			1.1.3 Natural Gas Reinjection										0	1									
17			1.1.4 Water flooding										0	0									
18			1.1.5 Gas lifting										0	0									
19			1.1.6 Gas flooding										0	0									
20			1.1.7 Steam flooding										0	0									
21			1.1.8 Oil sands mine (integrated with upgrader)										0	0									
22			1.1.9 Oil sands mine (non-integrated with upgrader)										1	0									
23		1.1.2 Field properties																					
24			1.1.2.1 Depth										7240	7240	ft								
25			1.1.2.2 Production volume										1500	1500	bbl/d								
26			1.1.2.3 Number of producing wells									OK	8	8	[-]								
27			1.1.2.4 Number of water injecting wells										5.0	5.0	[-]								
28			1.1.2.5 Diameter										2.8	2.8	in								
29			1.1.2.6 Productivity index									OK	3.0	3.0	bbl/psi-d								
30			1.1.2.7 Average reservoir pressure										1557	1557	psi								
31		1.1.3 Fluids properties																					
32			1.1.3.1 API gravity										8.0	30.0	deg. API								
33			1.1.3.2 Gas composition									N_2	2.0	2.0	mol%								
34												CO_2	6.0	6.0	mol%								
35												C_1	84.0	84.0	mol%								
36												C_2	4.0	4.0	mol%								
37												C_3	2.0	2.0	mol%								
38												C_{4+}	1.0	1.0	mol%								
39												H_2S	1.0	1.0	mol%								
40		1.1.4 Production practices											OK										
41			1.1.4.1 Gas-oil ratio (GOR)										227	227	scf/bbl								
42			1.1.4.2 Water oil ratio (WOR)										4.3	4.3	bbl water/bbl oil								
43			1.1.4.3 Water injection ratio										5.3	5.3	bbl water/bbl oil								
44			1.1.4.4 Steam oil ratio (SOR)										3.0	3.0	bbl steam/bbl oil								
45			1.1.4.5 Fraction of remaining gas to reinjection									OK	0	0	%								
46			1.1.4.6 Fraction of water to reinjection/flooding									OK	100	100	%								
47			1.1.4.7 Flood gas volumetric injection rate										NA	NA	Mscf/d						Kuo, J.C. et al. (2001)		
48																							
49																							
50																							
51	1.2 Secondary inputs (to be entered on this sheet)																						
52		1.2.1 Produced water properties																					
53			1.2.1.1 Concentration of dissolved solids (TDS)										5000	5000	mg/L						Vlasopoulos et al. (2006)		
54		1.2.2 Well description																					
55			1.2.2.1 Well head pressure										1000	1000	psi						Manning, F., and Thompson, R. (1991)		
56			1.2.2.2 Injectivity index										3.0	3.0	bbl/psi-d								
57			1.2.2.3 Friction factor										0.02	0.02	[-]								
58		1.2.3 Downhole pump characteristics																					
59			1.2.3.1 Pump efficiency										65	65	%								
60			1.2.3.2 Prime mover type									1 = NG engine, 2 = Electric motor, 3 = Diesel engine, 4 = NG turbine	1	1	NA								

Introduction | How to use | To be done | Model coverage | Inputs | Results | Active Field | Energy Consumption | GHG Emissions | Exploration | Drilling & Development | Production & Extraction | Surface Processing | Mair

Ready 100%