

Artificial Intelligence Applied to Upstream Oil & Gas: Well Modeling and Financial Forecast

Field Well Analytics

Run Analytics

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Well	Problem Type	Solution	NPV
TE-9	Formation Damage	Stimulation Job	11.061261223457548
TE-10	Mechanical Failure - Tubing leak	Fix Leak	5.426123691498335
TE-11	Artificial Lift Failure	Repair	1.7367414757382935
TE-16	Water Encroachment	Water Shutoff	6.421612995681496
TE-17	Zone Depletion	Zone Transfer	2.225041952780344

Well	Case	Capex	Opex	OP	NPV	Most Likely Case Assumption
TE-9	Min	0.25	8	40	7.632882856	Oil Price (\$/stb) 50.0
TE-9	ML	0.2	5	50	11.061261223	OPEX (\$/stb) 5.0
TE-9	Max	0.17	4	60	13.90657652	Royalty (%) 5.0
TE-10	Min	0.19	8	40	3.72728658	Tax (%) 5.0
TE-10	ML	0.17	5	50	5.426123691	CAPEX (MM\$) 1.29
TE-10	Max	0.15	4	60	6.84515461	Discount (%) 10.0
TE-11	Min	0.35	8	40	1.07571903	
TE-11	ML	0.3	5	50	1.736741475	
TE-11	Max	0.25	4	60	2.29592684	
TE-16	Min	0.32	8	40	4.37812909	
TE-16	ML	0.29	5	50	6.421612995	
TE-16	Max	0.2	4	60	8.18951624	
TE-17	Min	0.39	8	40	1.39852936	
TE-17	ML	0.33	5	50	2.225041952	
TE-17	Max	0.19	4	60	3.00380244	

Project NPV (Most Likely Case)

Do Nothing Case : 13.2 MMUSD

Most Likely Case : 26.9 MMUSD

Min

ML

Max

All

Assumption Variables

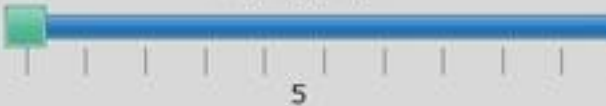
Oil Price (\$/stb)



Operating Cost (\$/stb)



Royalty (%)



Tax (%)



Capex (MM \$)



Case Assumption - Min



Case Assumption - ML



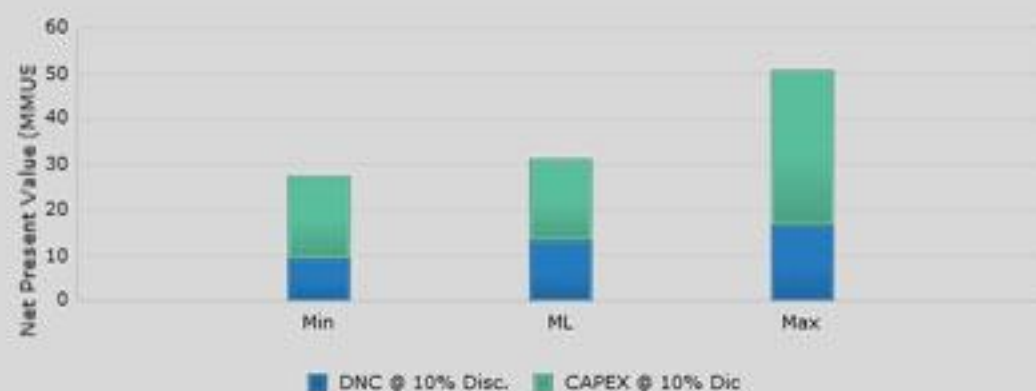
Case Assumption - Max



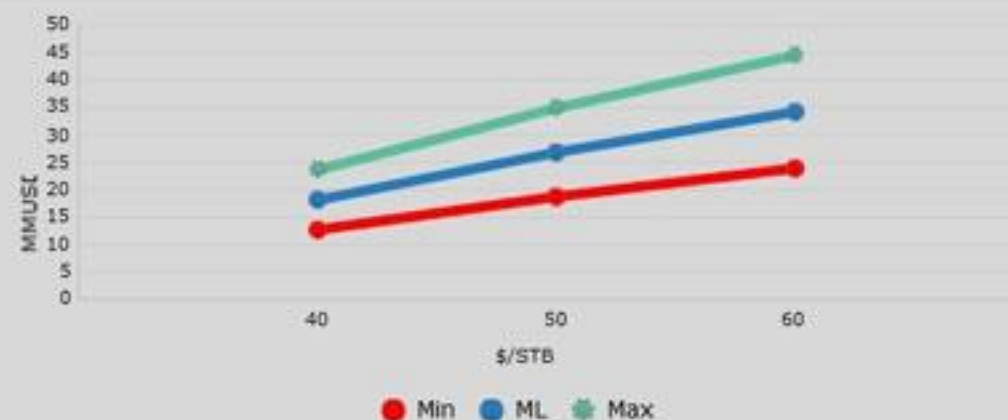
Sensitivity on ML



Project Summary



Oil Price vs NPV



Save Case

Rank Wells

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