

RANGE RESOURCES CORPORATION
FINDING AND DEVELOPMENT COST CALCULATIONS

During the past three years, we have increased proved reserves by 48% at an average finding and development cost of \$0.41 per mcf: (before future development costs). Our finding and development cost ratio is derived directly from our Costs Incurred schedule, excluding non-cash costs and costs incurred for gathering facilities, (see Note 18: Supplemental Information on Natural Gas and Oil Exploration, Development and Production Activities) and our reconciliation of beginning and ending proved reserves. The following table details our calculation of "all-in" finding and development costs which is typically done by financial analysts and a calculation of finding and development described in SEC Oil and Gas Alert 05-1:

	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>Combined Three years</u>
Costs incurred:				
Acquisitions:				
Acreage purchases	\$ 62,075	\$ 33,142	\$ 73,025	\$ 168,242
Unproved leasehold acquired	-	2,001,196	-	\$ 2,001,196
Proved oil and gas properties	18,269	1,097,585	-	1,115,854
Asset retirement obligations	-	21,899	-	21,899
Development expenditures	1,179,556	535,475	795,773	2,510,804
Exploration expenditures	50,920	30,027	18,421	99,368
Exploration expenditures -- non-cash	2,742	2,298	2,985	8,025
Asset retirement obligations changes	20,245	(24,064)	22,184	18,365
Gas gathering facilities:				
Acquisitions	-	-	-	-
Development	15,097	3,595	13,337	32,029
Total costs incurred per 10-K	<u>\$ 1,348,904</u>	<u>\$ 3,701,153</u>	<u>\$ 925,725</u>	<u>\$ 5,975,782</u>
Changes in future development costs	<u>\$ 497,400</u>	<u>\$ 314,864</u>	<u>\$ (359,540)</u>	<u>\$ 452,724</u>
Reserve adds (Mmcf):				
Extension, discoveries, and additions	3,487,519	1,394,134	1,265,348	6,147,001
Revisions - PUD removal	(668,267)	(268,689)	(1,167,512)	(2,104,468)
- improved recovery	597,004	393,182	781,040	1,771,226
- performance	531,884	154,425	271,165	957,474
- price	46,297	(23,124)	(95,856)	(72,683)
Total reserve adds excluding purchases	<u>3,994,437</u>	<u>1,649,928</u>	<u>1,054,185</u>	<u>6,698,550</u>
Purchases	10,116	1,259,806	-	1,269,922
Total reserve adds	<u>4,004,553</u>	<u>2,909,734</u>	<u>1,054,185</u>	<u>7,968,472</u>
Finding and development costs as described in SEC Oil & Gas Alert 05-1				
Total costs incurred	\$ 1,348,904	\$ 3,701,153	\$ 925,725	\$ 5,975,782
Changes in future development costs	497,400	314,864	(359,540)	452,724
	<u>\$1,846,304</u>	<u>\$4,016,017</u>	<u>\$566,185</u>	<u>\$ 6,428,506</u>
Total overall finding & development costs	<u>\$0.46</u>	<u>\$1.38</u>	<u>\$0.54</u>	<u>\$0.81</u>

Finding and development costs as typically calculated by analysts- (excl. purchases)				
Total costs incurred	\$1,348,904	\$3,701,153	\$925,725	\$ 5,975,782
Less -				
Gas gathering facilities	(15,097)	(3,595)	(13,337)	(32,029)
Unproved leasehold acquired	-	(2,001,196)	-	(2,001,196)
Proved oil and gas properties acquired	(18,269)	(1,097,585)	-	(1,115,854)
Asset retirement obligations	(20,245)	2,165	(22,184)	(40,264)
Non-cash Exploration expenses	(2,742)	(2,298)	(2,985)	(8,025)
Total costs used	<u>\$1,292,551</u>	<u>\$598,644</u>	<u>\$887,219</u>	<u>\$2,778,414</u>
Total overall finding & development costs	<u>\$0.32</u>	<u>\$0.36</u>	<u>\$0.84</u>	<u>\$0.41</u>

Note: "Drill-bit" finding cost is defined as *Total costs used* (as reconciled above) less 'Acreage purchases' divided by *Total reserve adds excluding purchases* (as reconciled above).