WELL LOCATION PLAT

Page 4 Cross Section

Applicant/Well Operator Name	DEP ID#	Well (Farm) Name	Well #
Range Resources - Appalachia, LLC	141142	Sasso, Leonard Unit	11H

WELL PLAN

RANGE RESOURCES

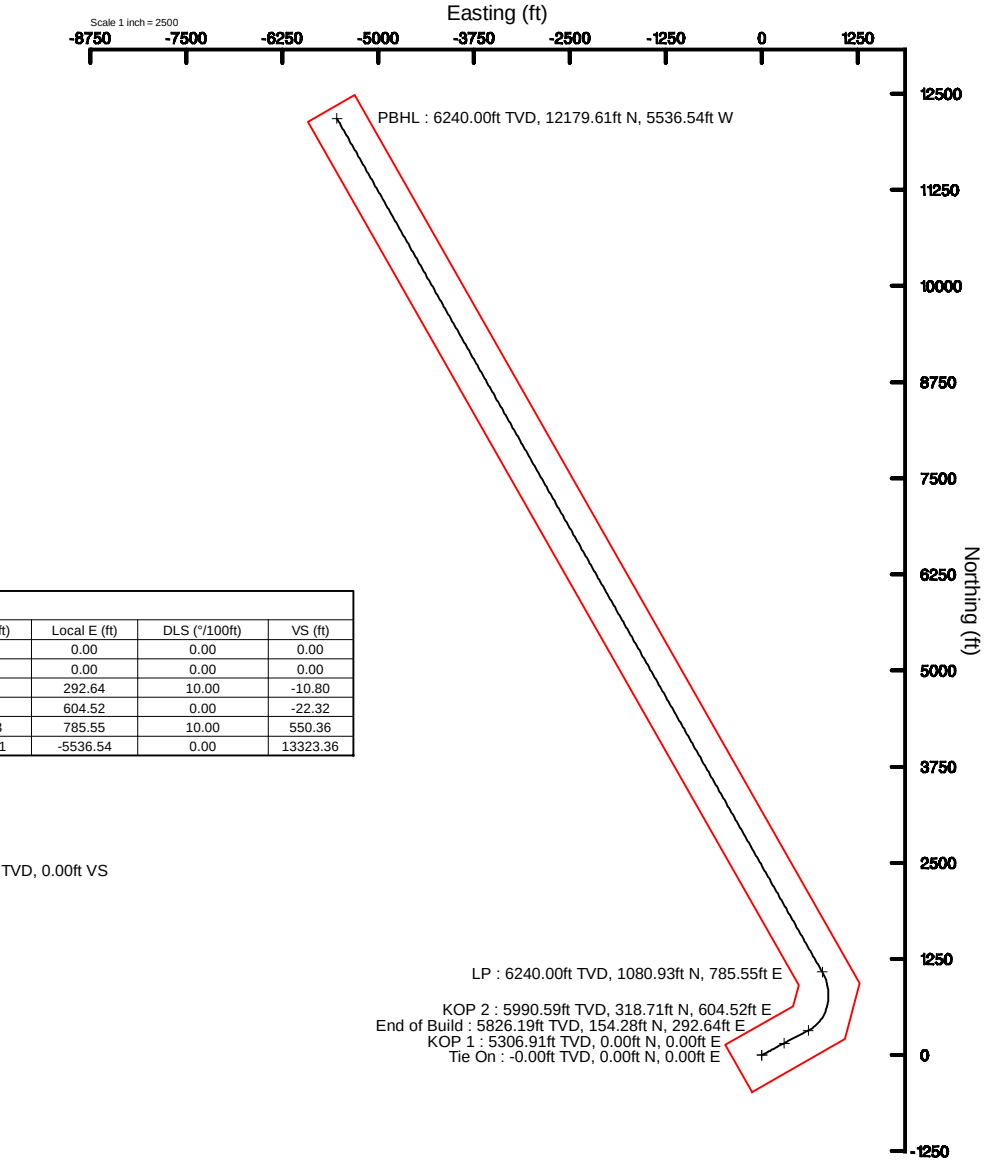
DEP Use Only	Permit #

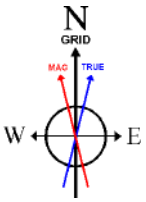
Operator Name: Range Resources - Appalachia, LLC

Well/Farm Name: Sasso, Leonard Unit

			Latitude	Longitude
KOP:	TVD: 5306.91	TMD: 5306.91	40°22'04.80"N	80°21'28.48"W
Landing Point:	TVD: 6240.00	TMD: 7262.86	40°22'15.71"N	80°21'18.75"W

Notes:

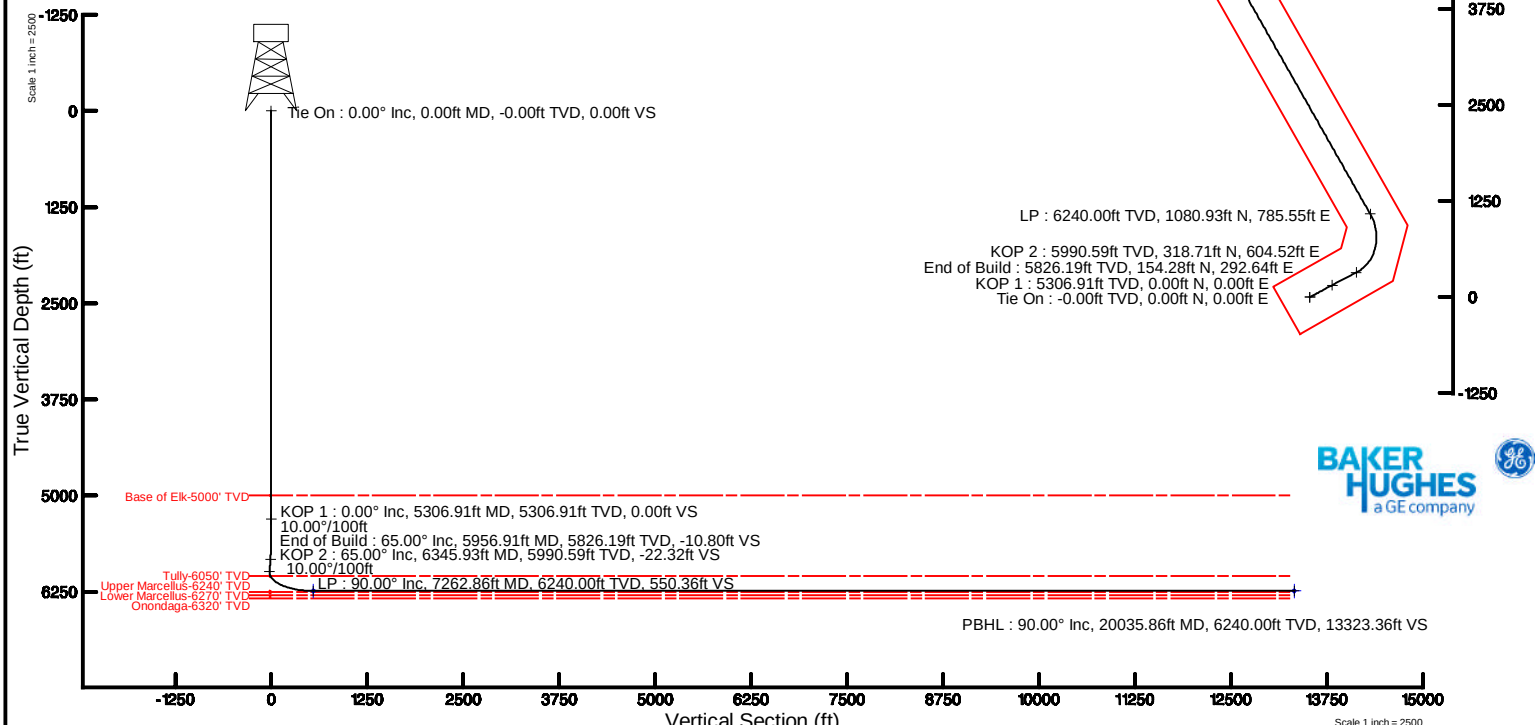




BGGM (1900.0 to 2019.0) Dip: 67.36° Field: 52472.6 nT
Magnetic North is 9.02 degrees West of True North (at 29/Aug/2017)
Grid North is 1.69 degrees West of True North
To correct azimuth from True to Grid add 1.69 degrees
To correct azimuth from Magnetic to Grid subtract 7.33 degrees

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	62.202	0.00	0.00	0.00	0.00	0.00
KOP 1	5306.91	0.000	62.202	5306.91	0.00	0.00	0.00	0.00
End of Build	5956.91	65.000	62.202	5826.19	154.28	292.64	10.00	-10.80
KOP 2	6345.93	65.000	62.202	5990.59	318.71	604.52	0.00	-22.32
LP	7262.86	90.000	330.333	6240.00	1080.93	785.55	10.00	550.36
PBHL	20035.86	90.000	330.333	6240.00	12179.61	-5536.54	0.00	13323.36



BAKER HUGHES a GE company