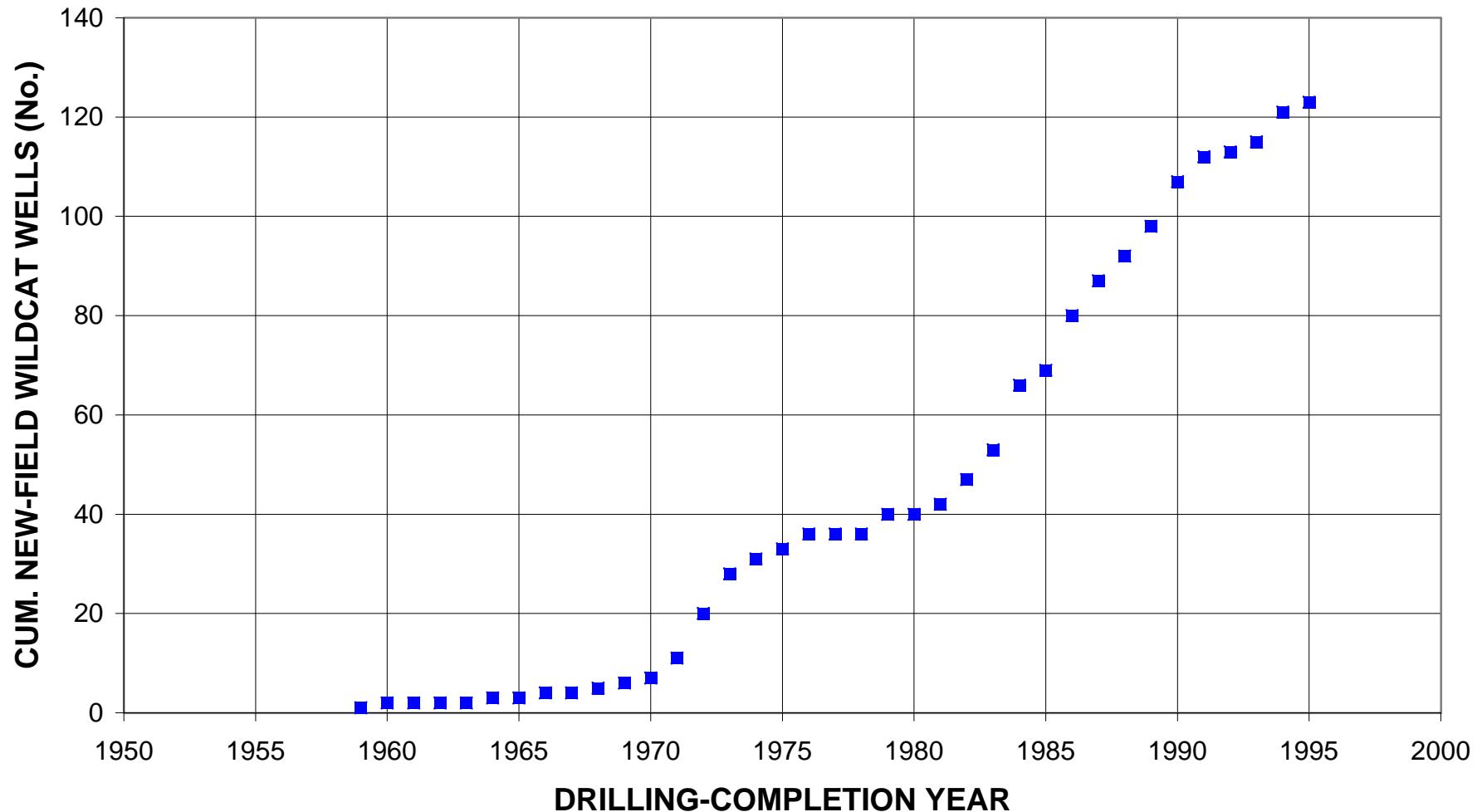
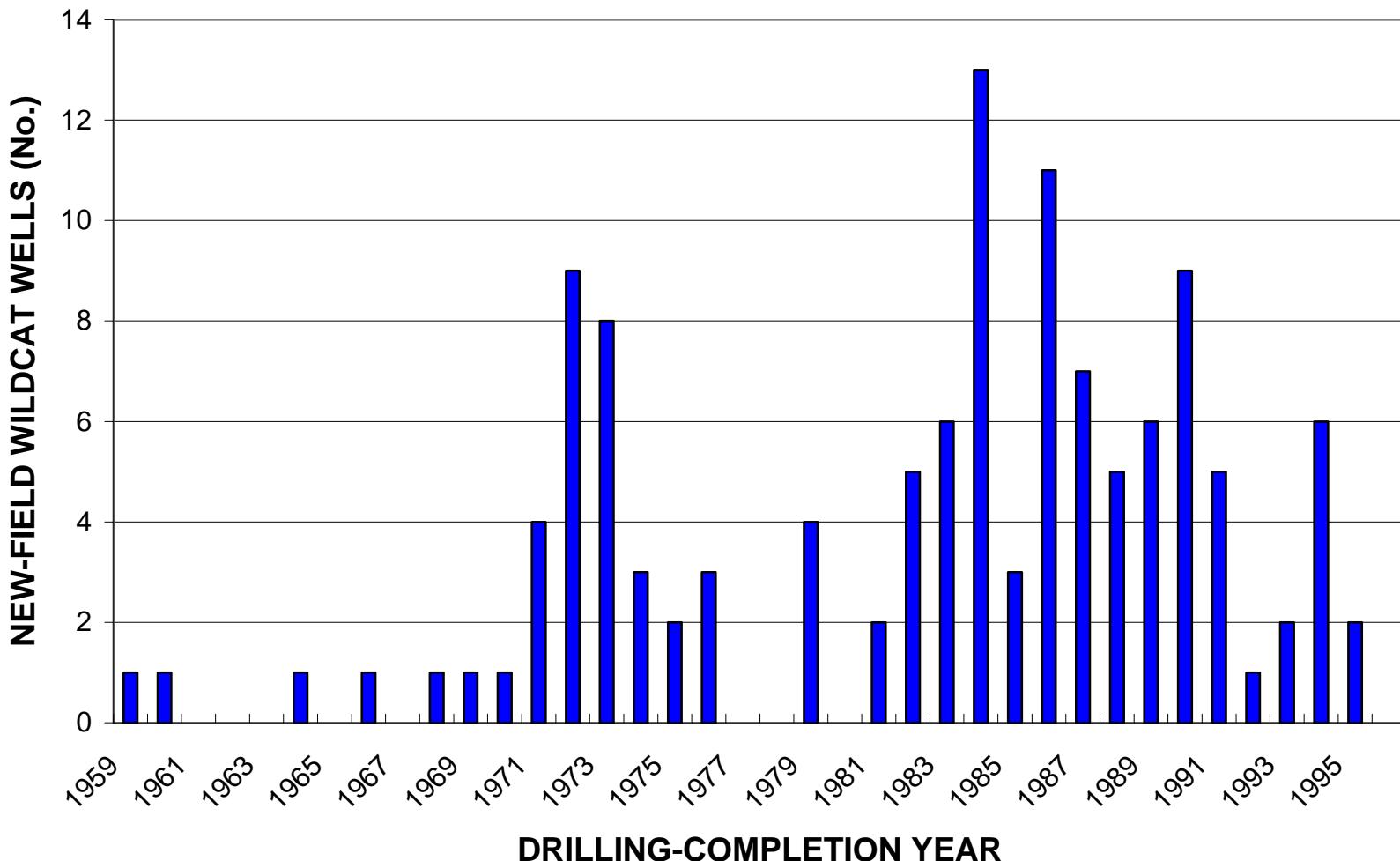


Ghaba-Makarem Combined Structural, Assessment Unit
20140101

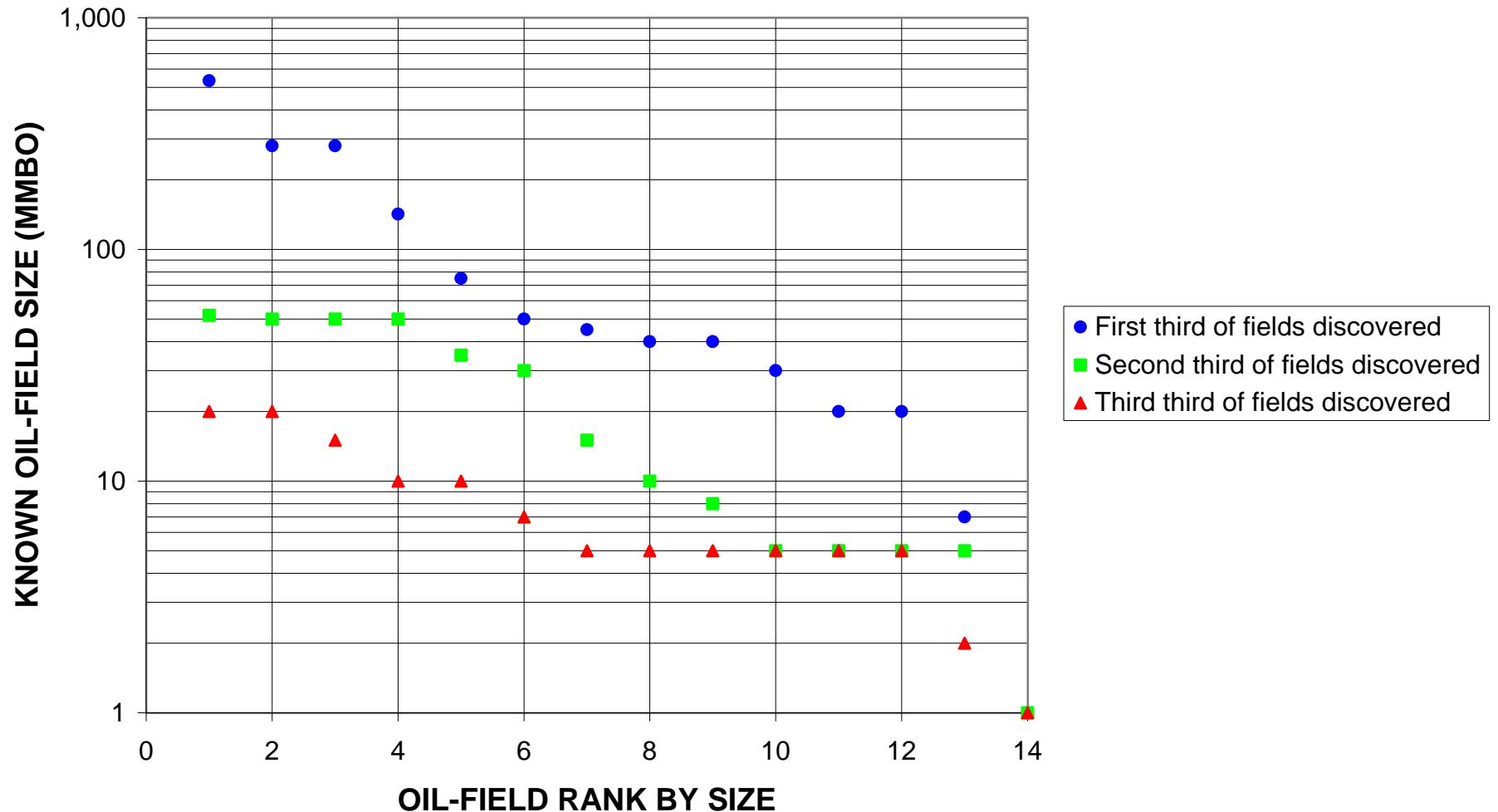


Ghaba-Makarem Combined Structural, Assessment Unit
20140101



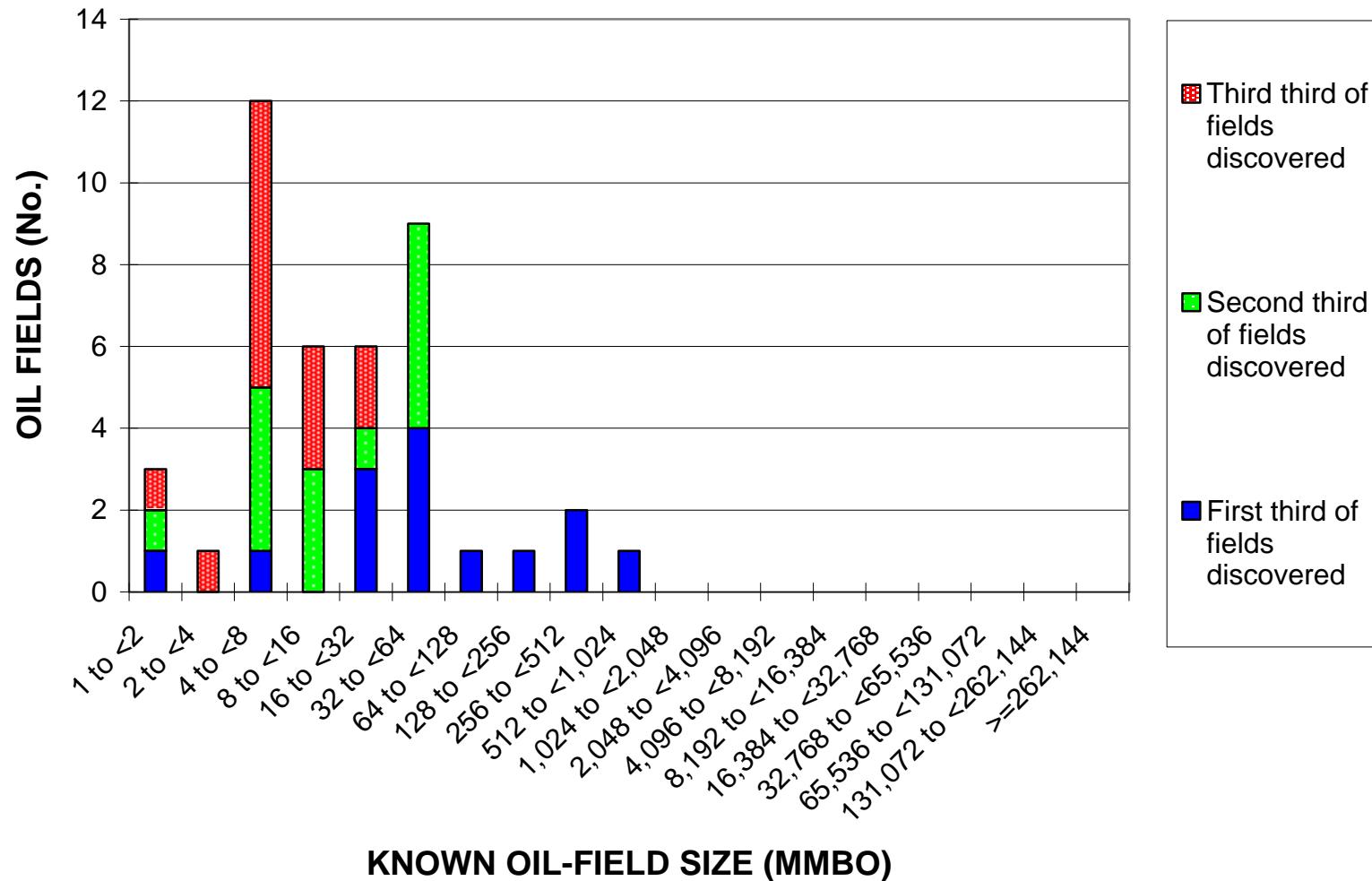
Ghaba-Makarem Combined Structural, Assessment Unit

20140101

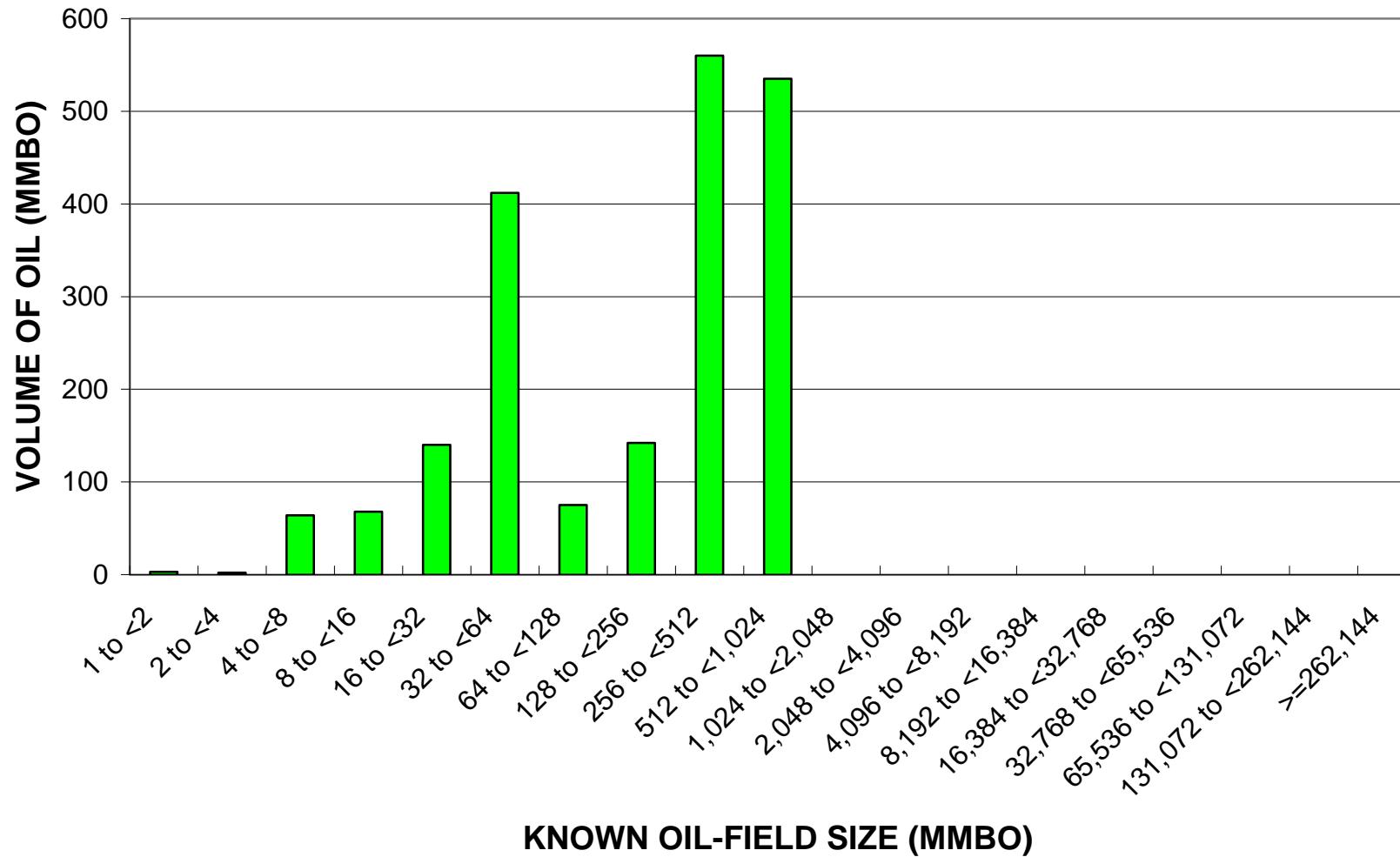


Ghaba-Makarem Combined Structural, Assessment Unit

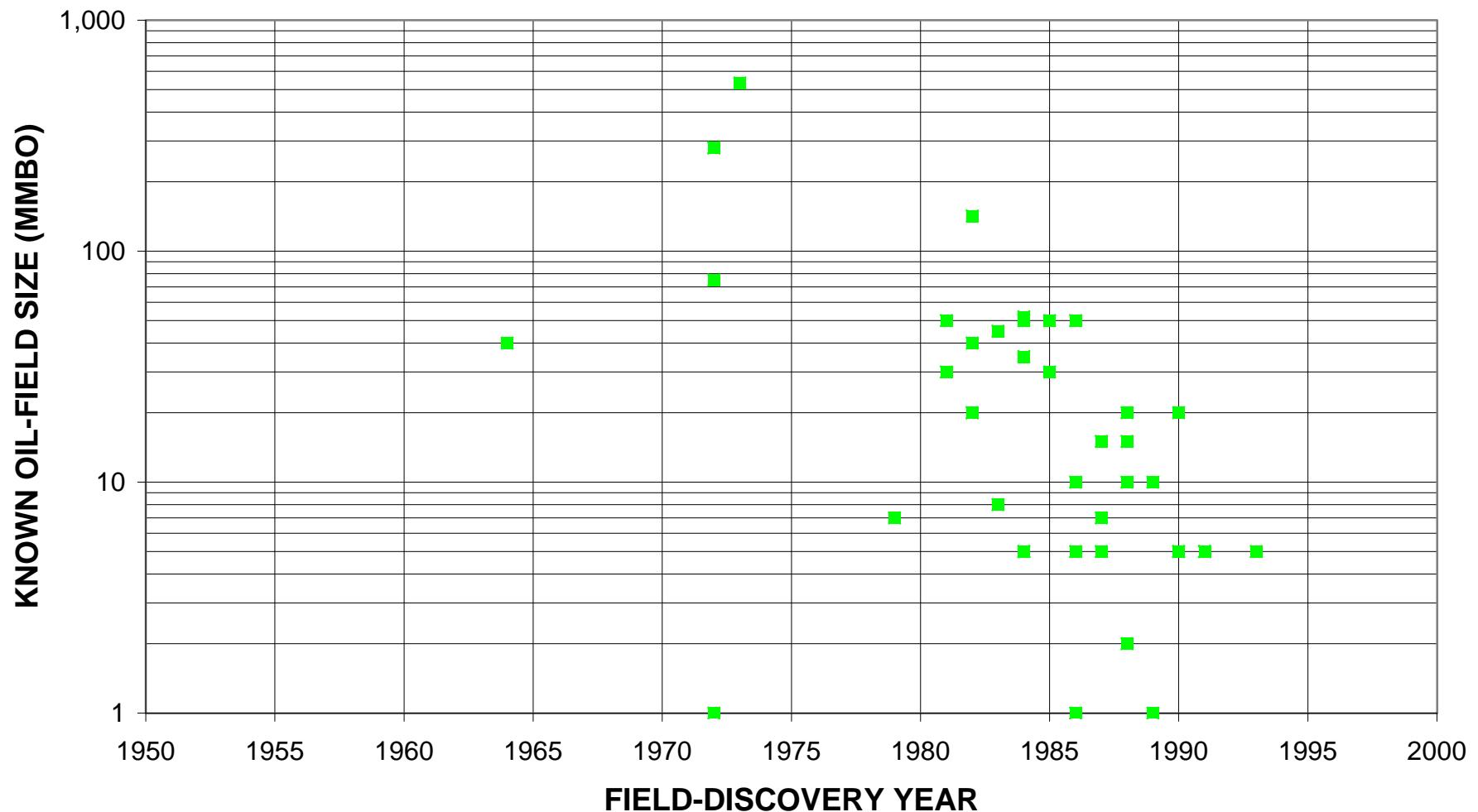
20140101



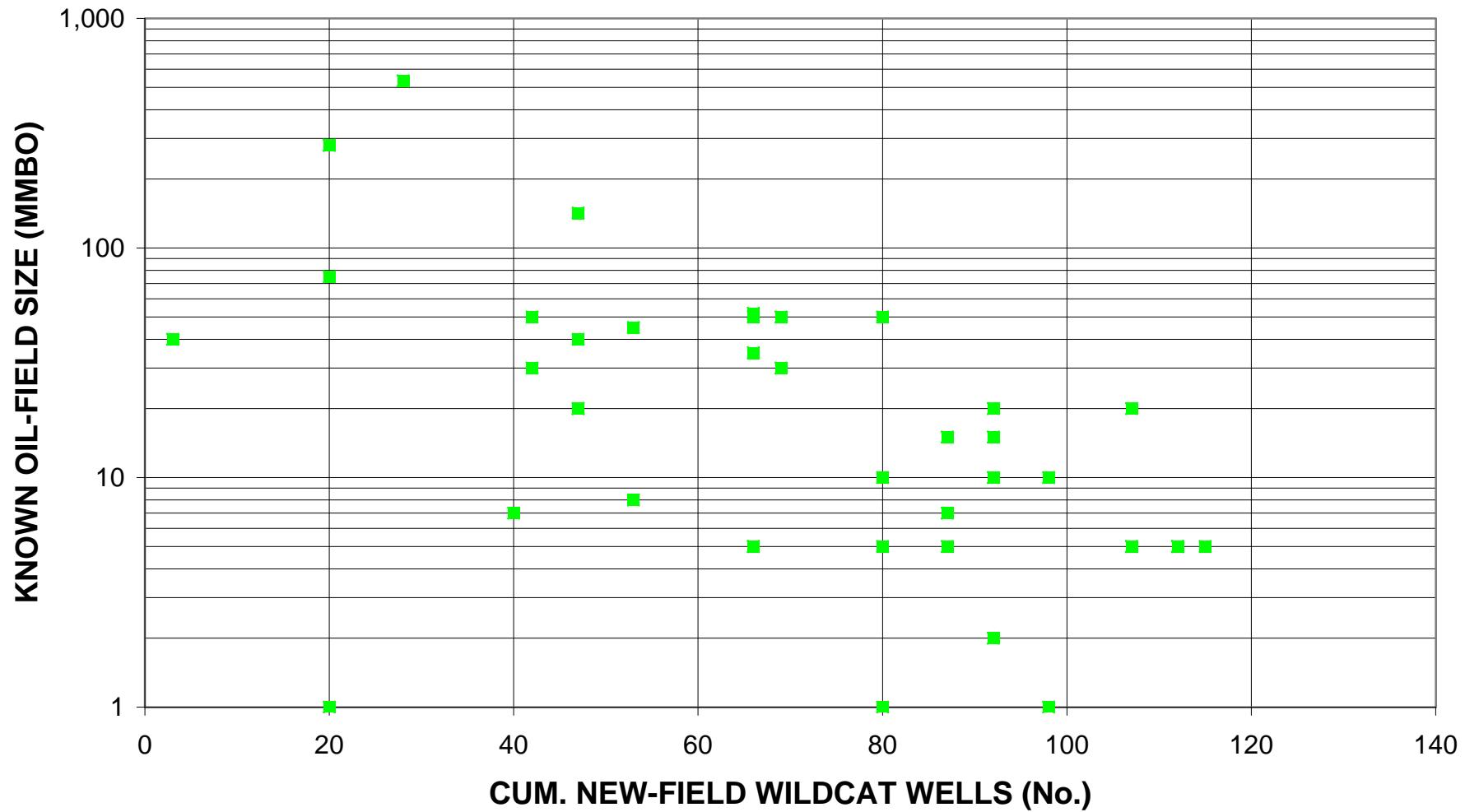
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



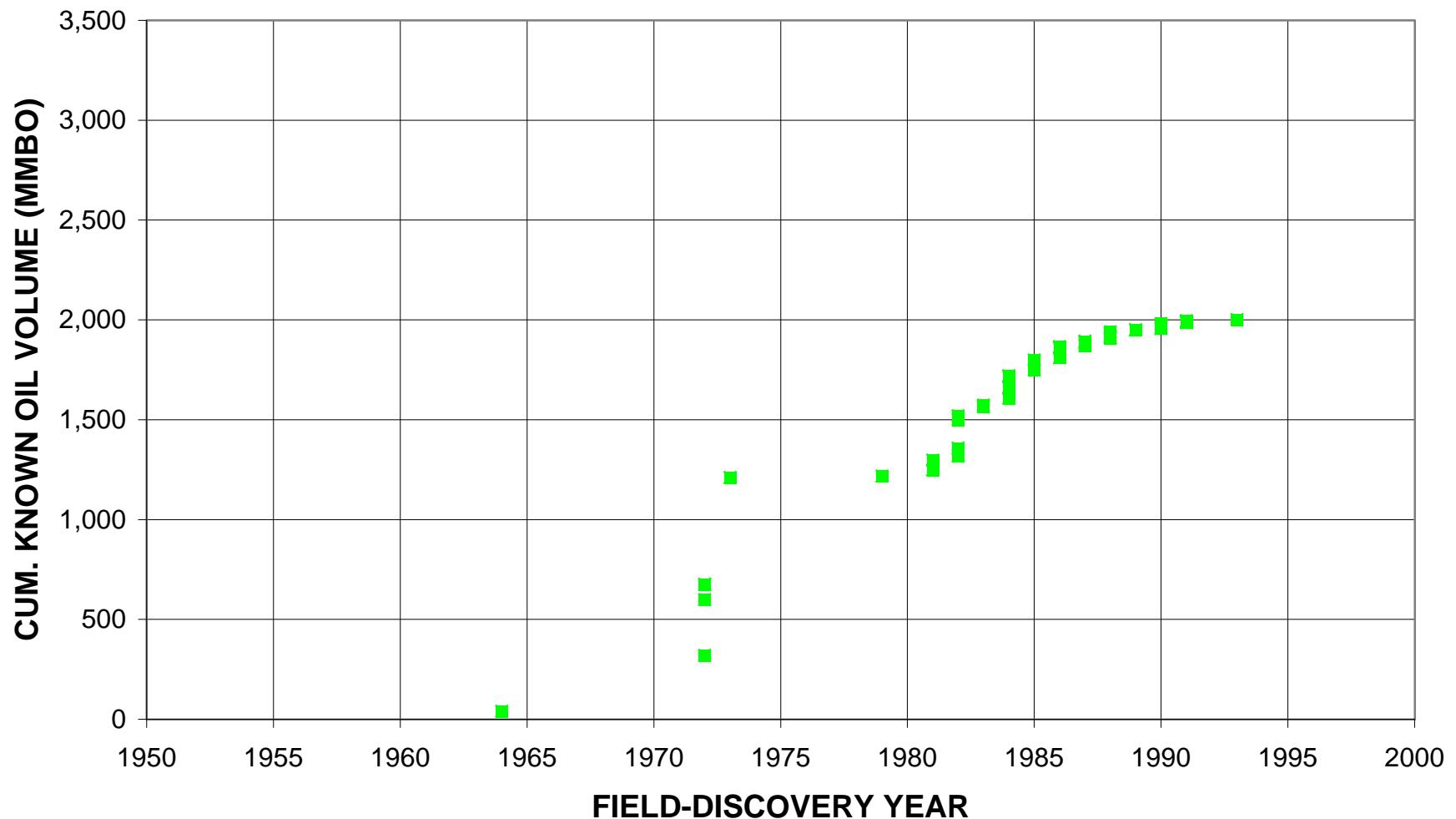
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



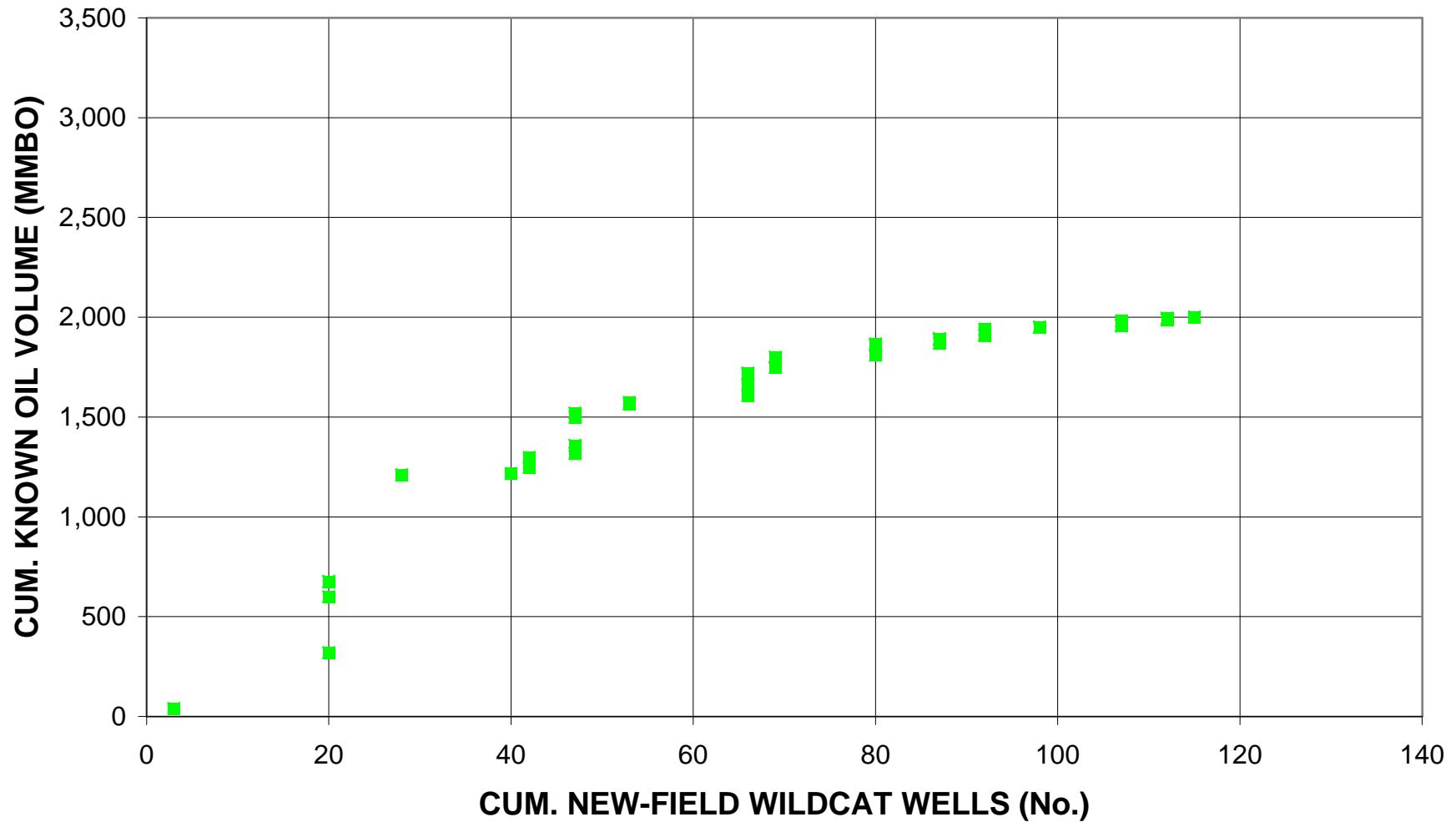
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



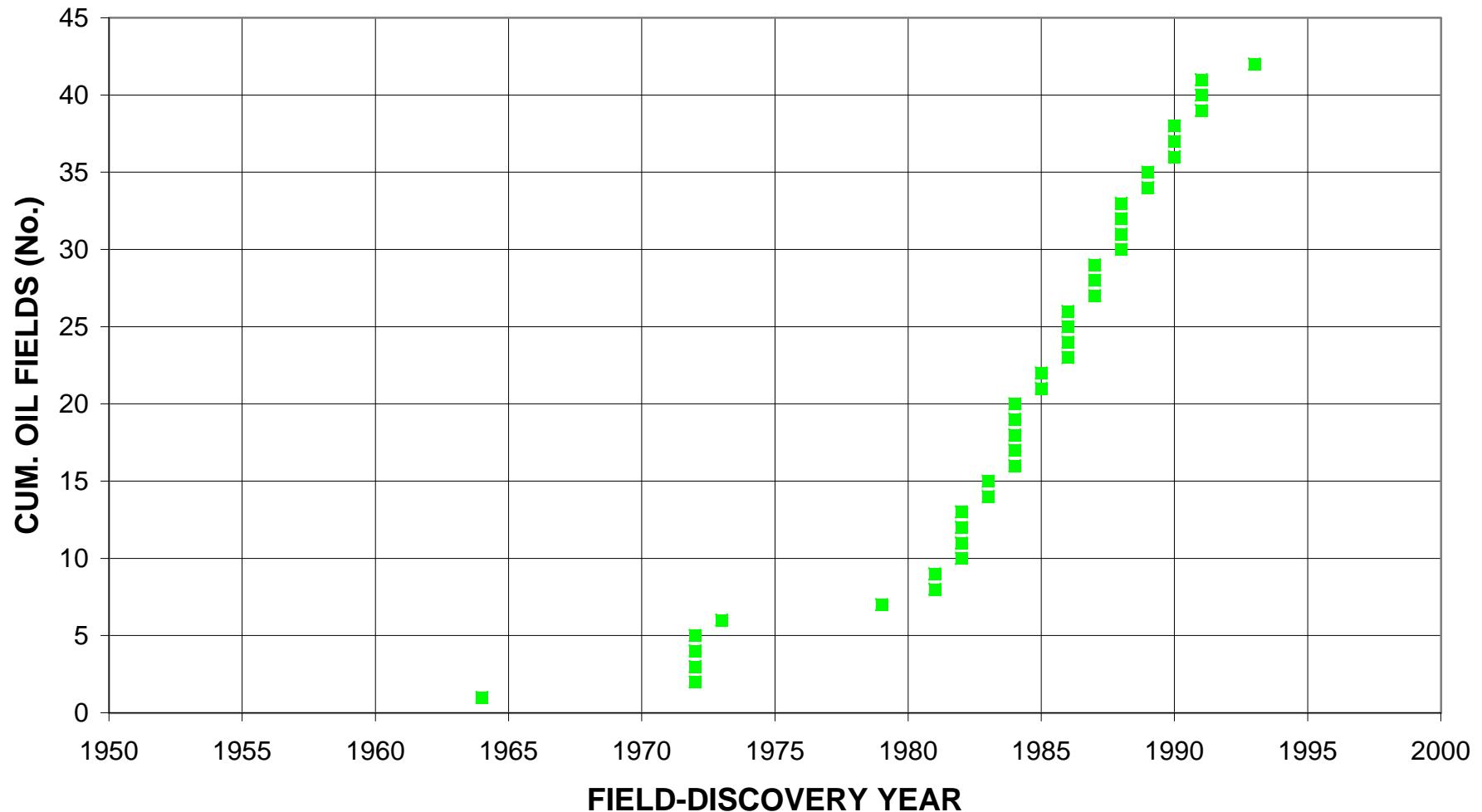
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



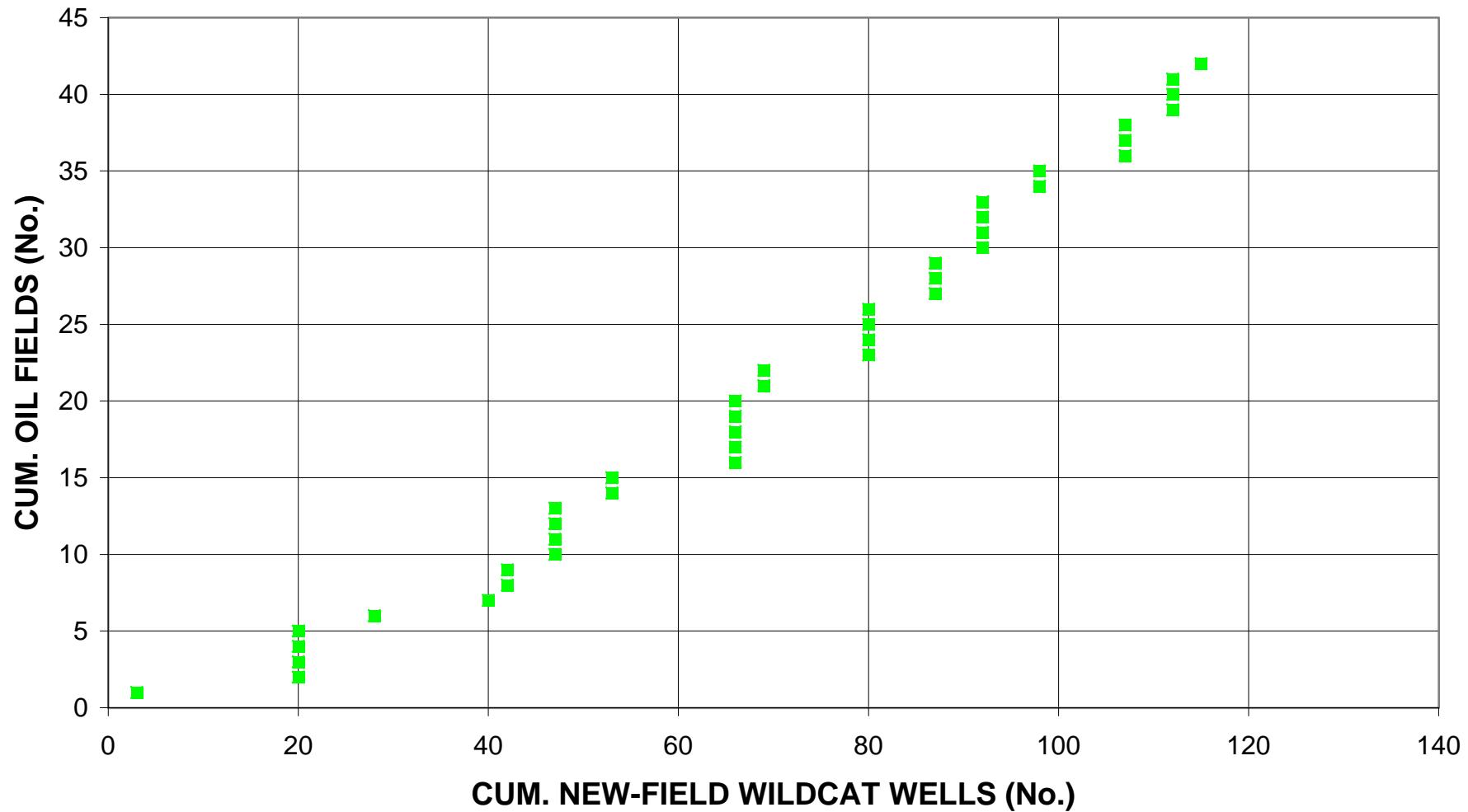
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



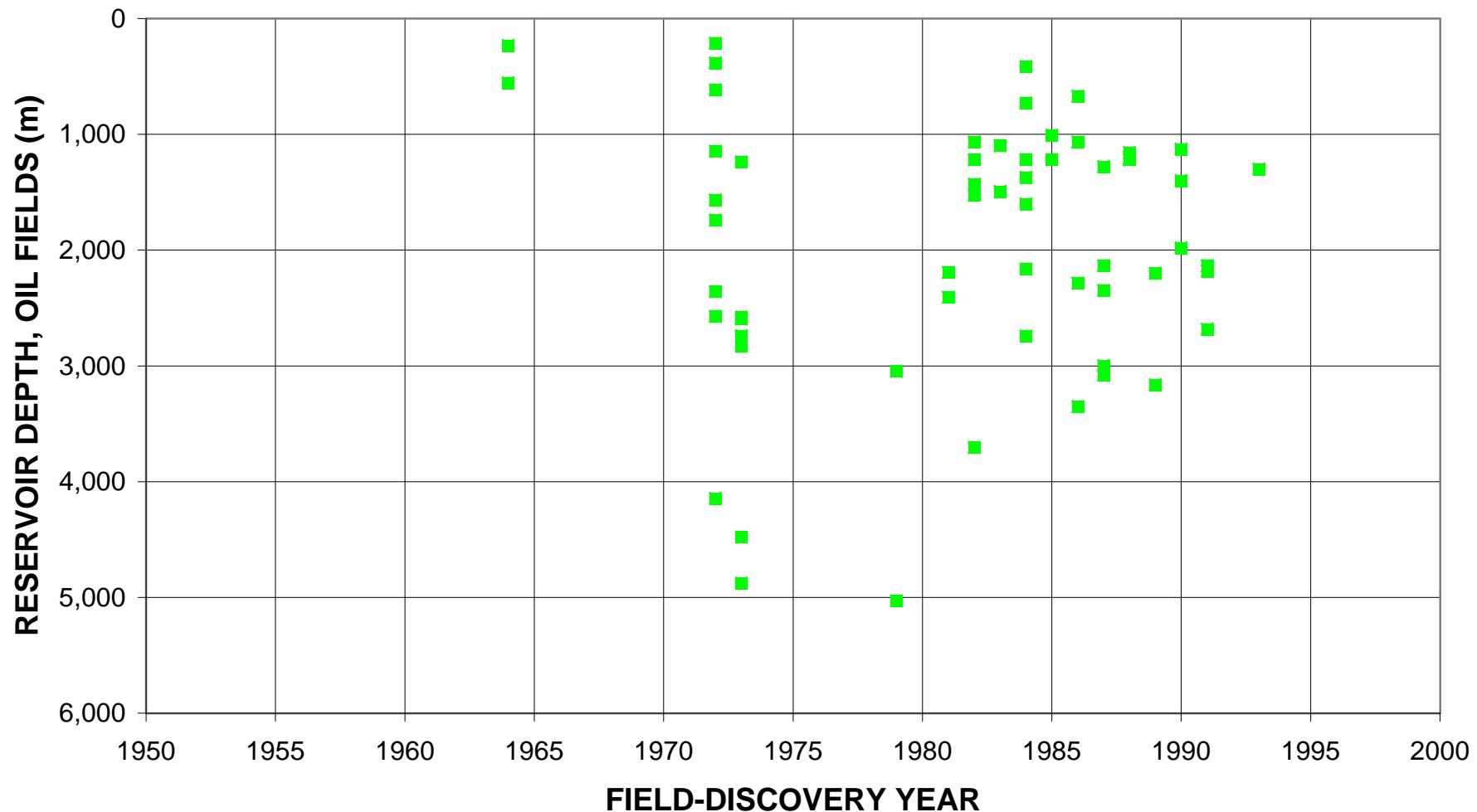
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



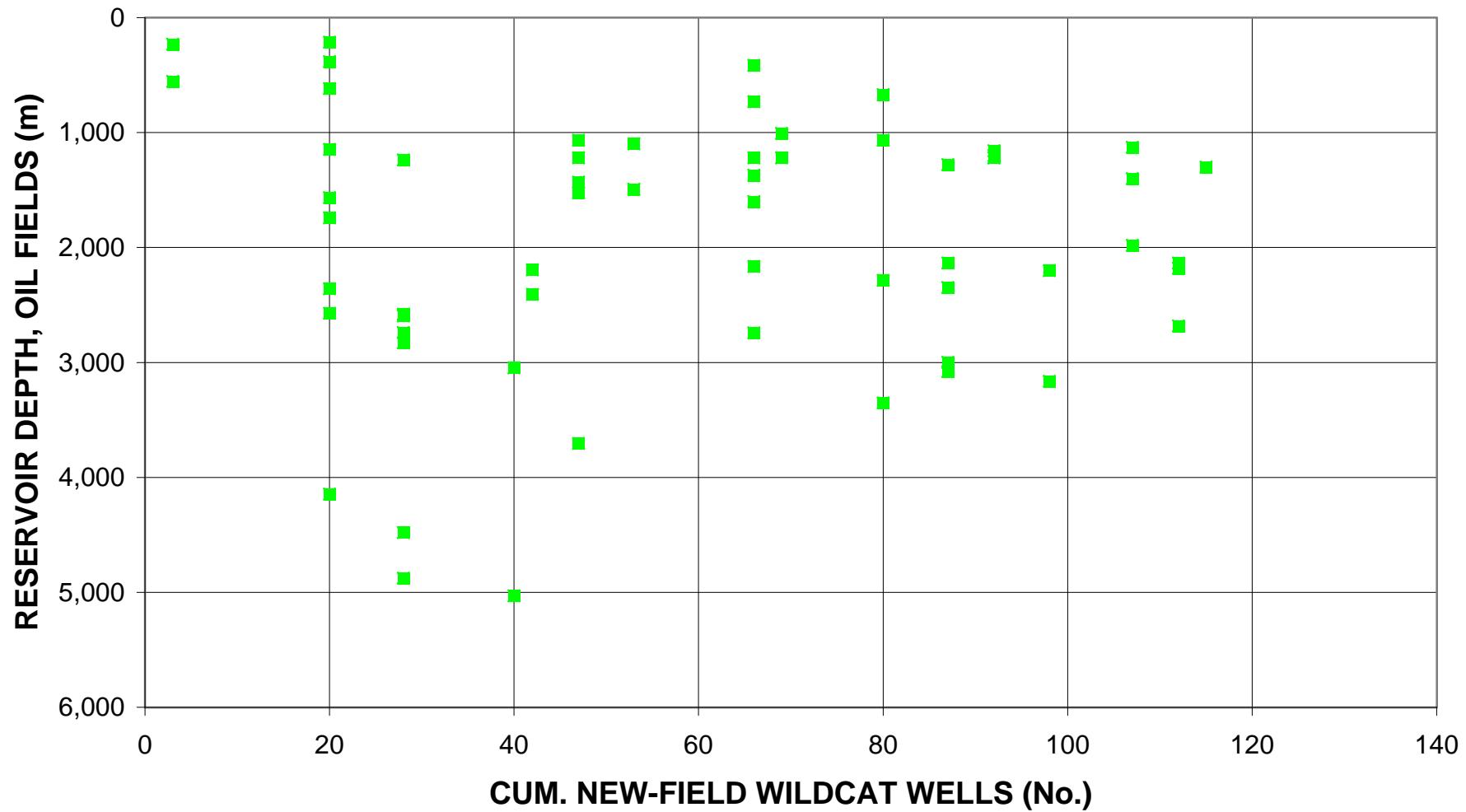
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



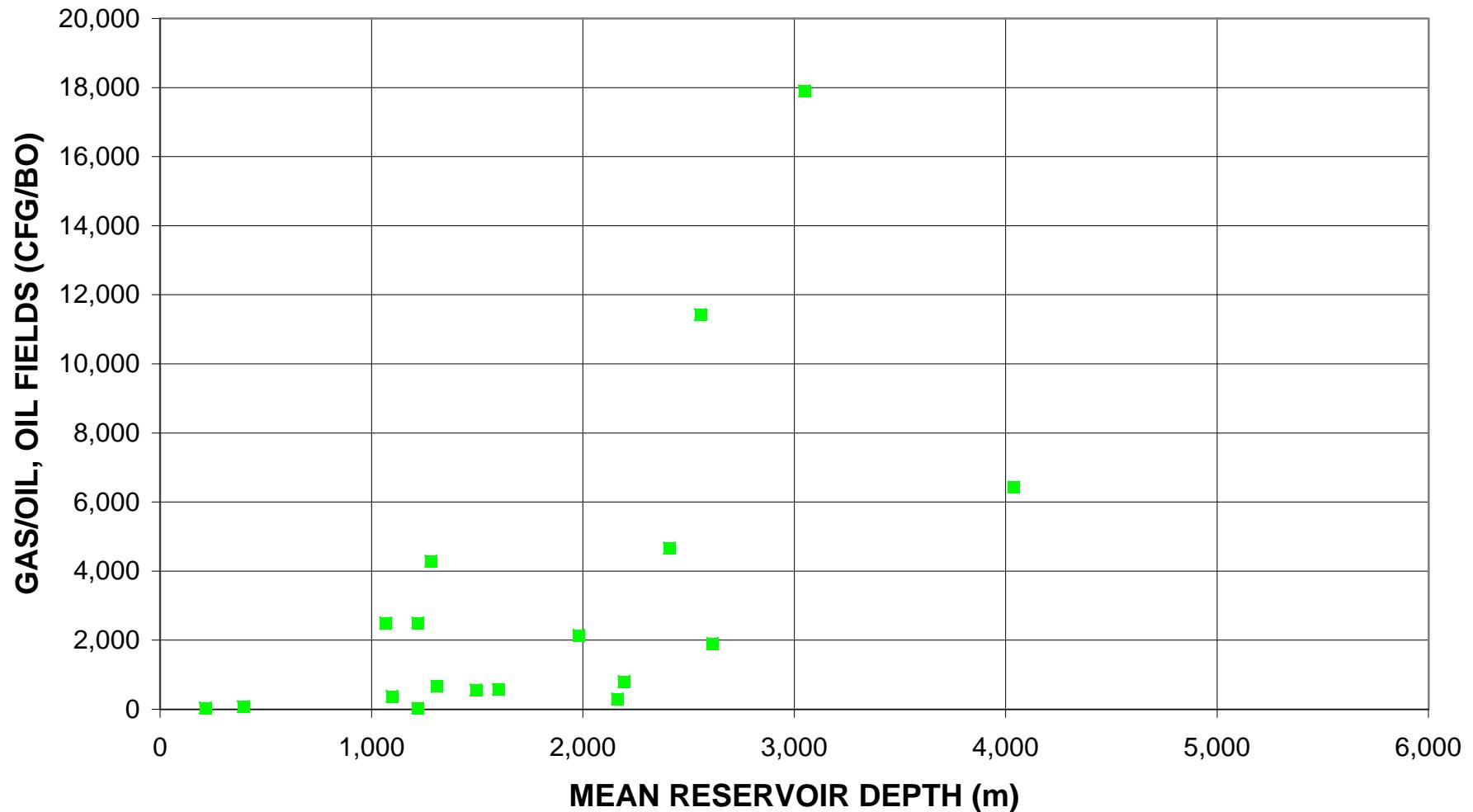
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



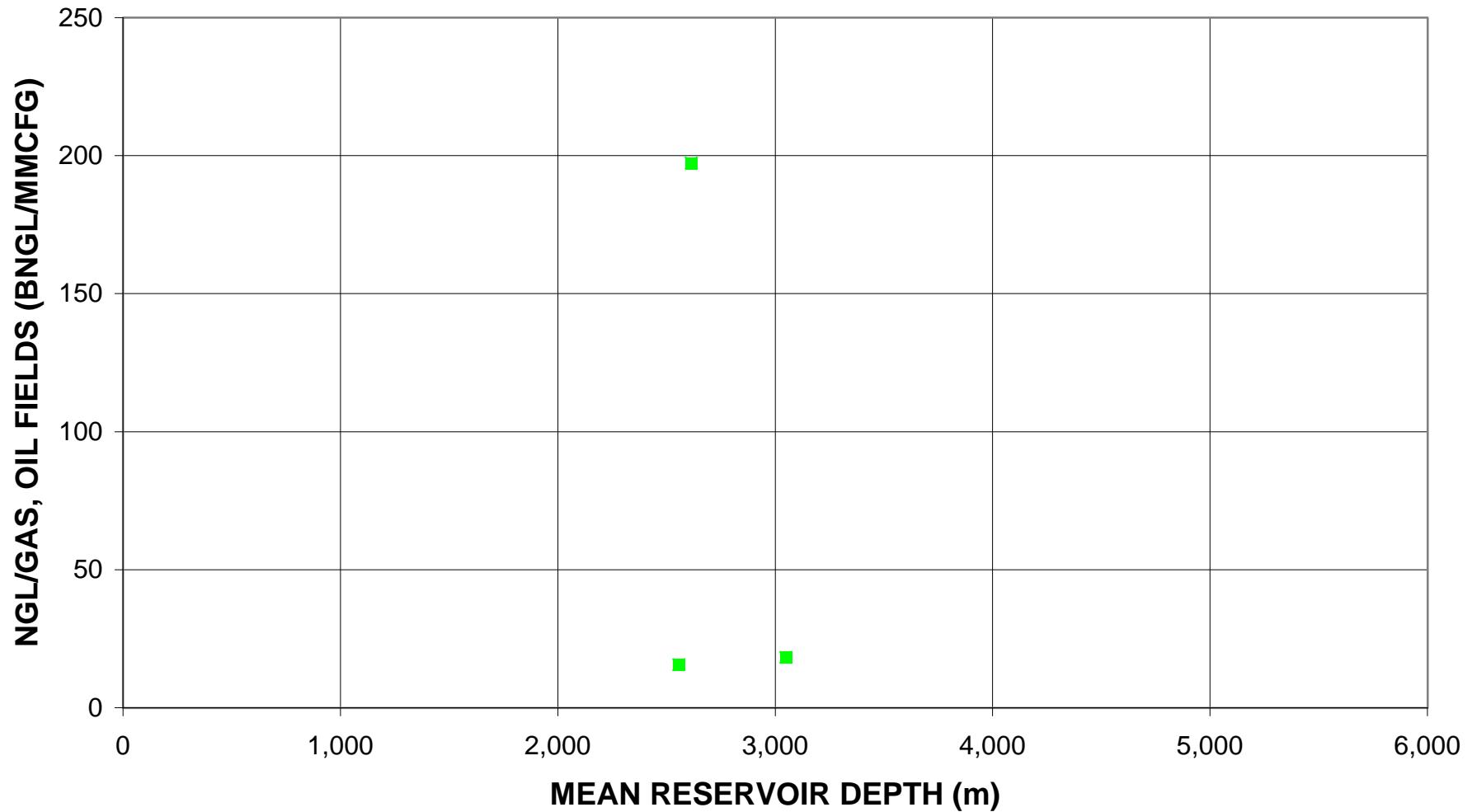
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



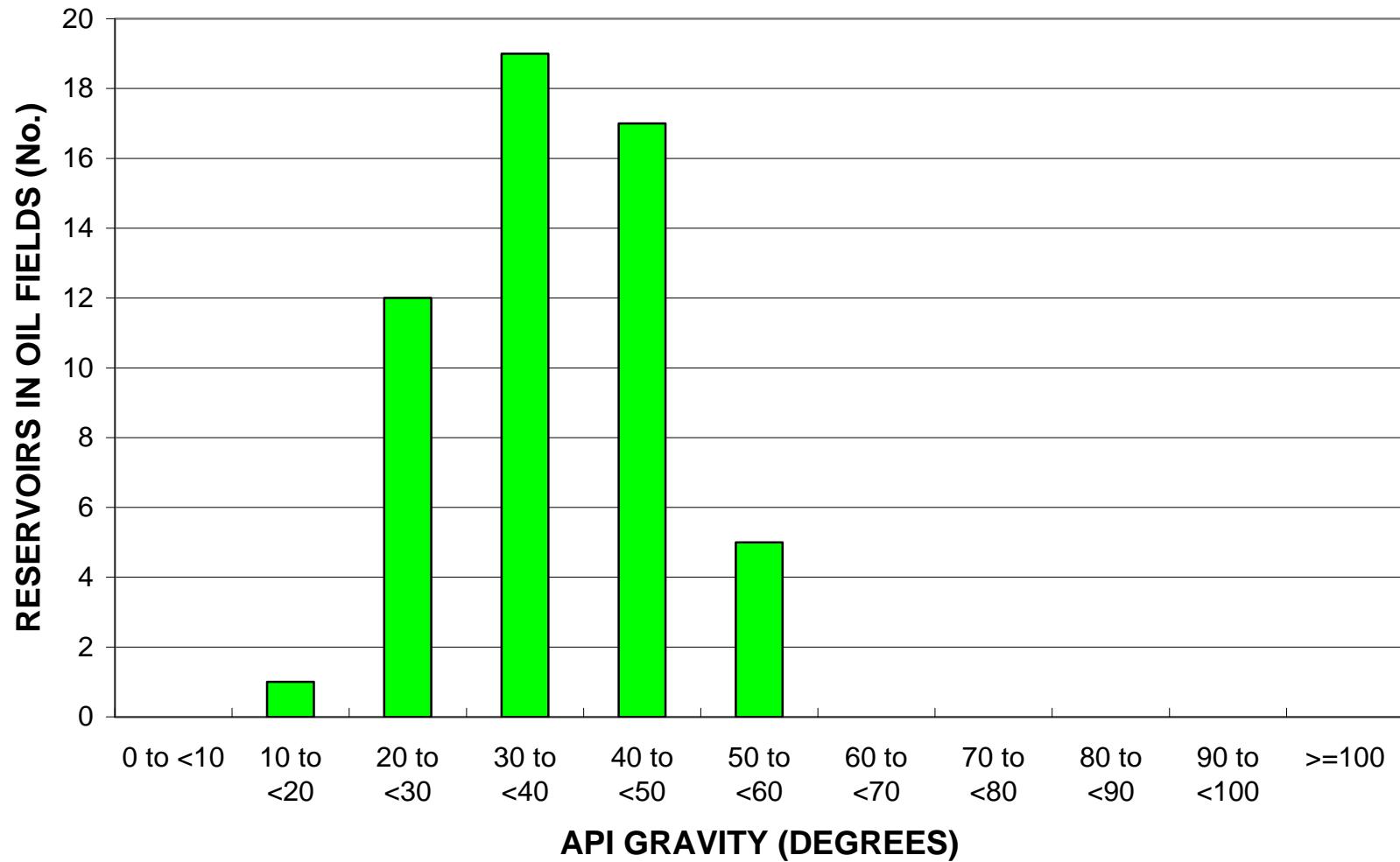
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



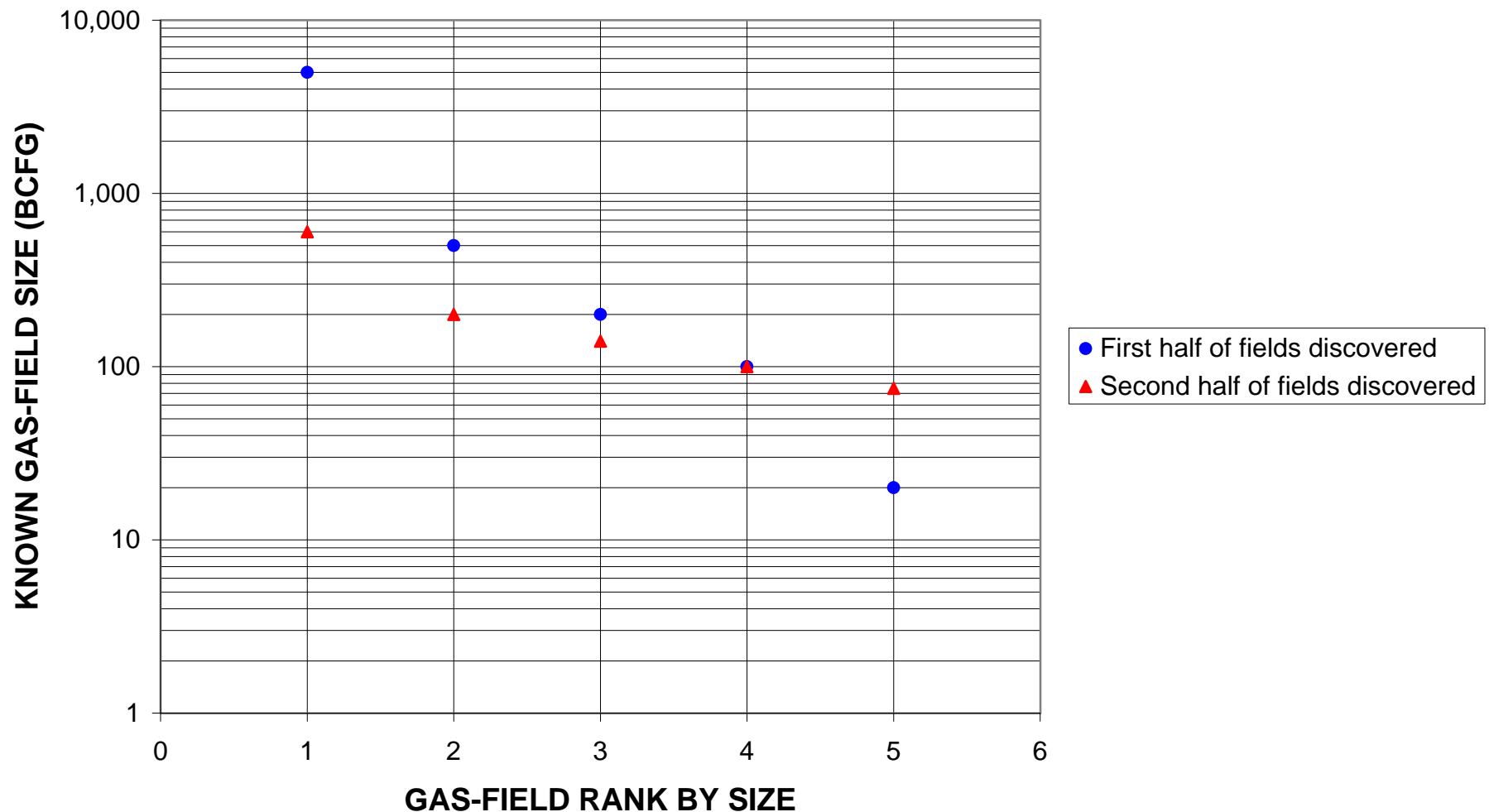
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



Ghaba-Makarem Combined Structural, Assessment Unit
20140101

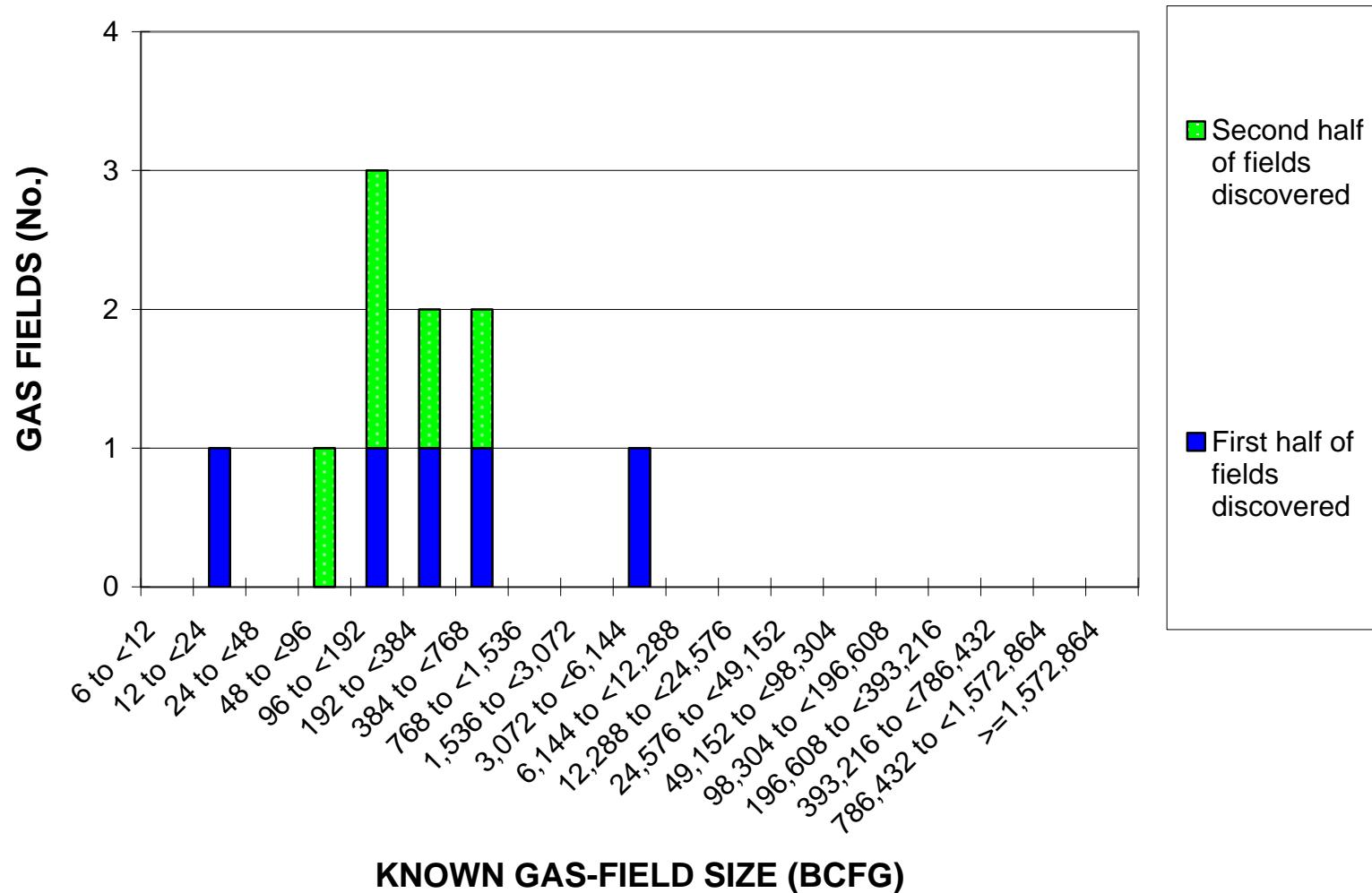


Ghaba-Makarem Combined Structural, Assessment Unit
20140101



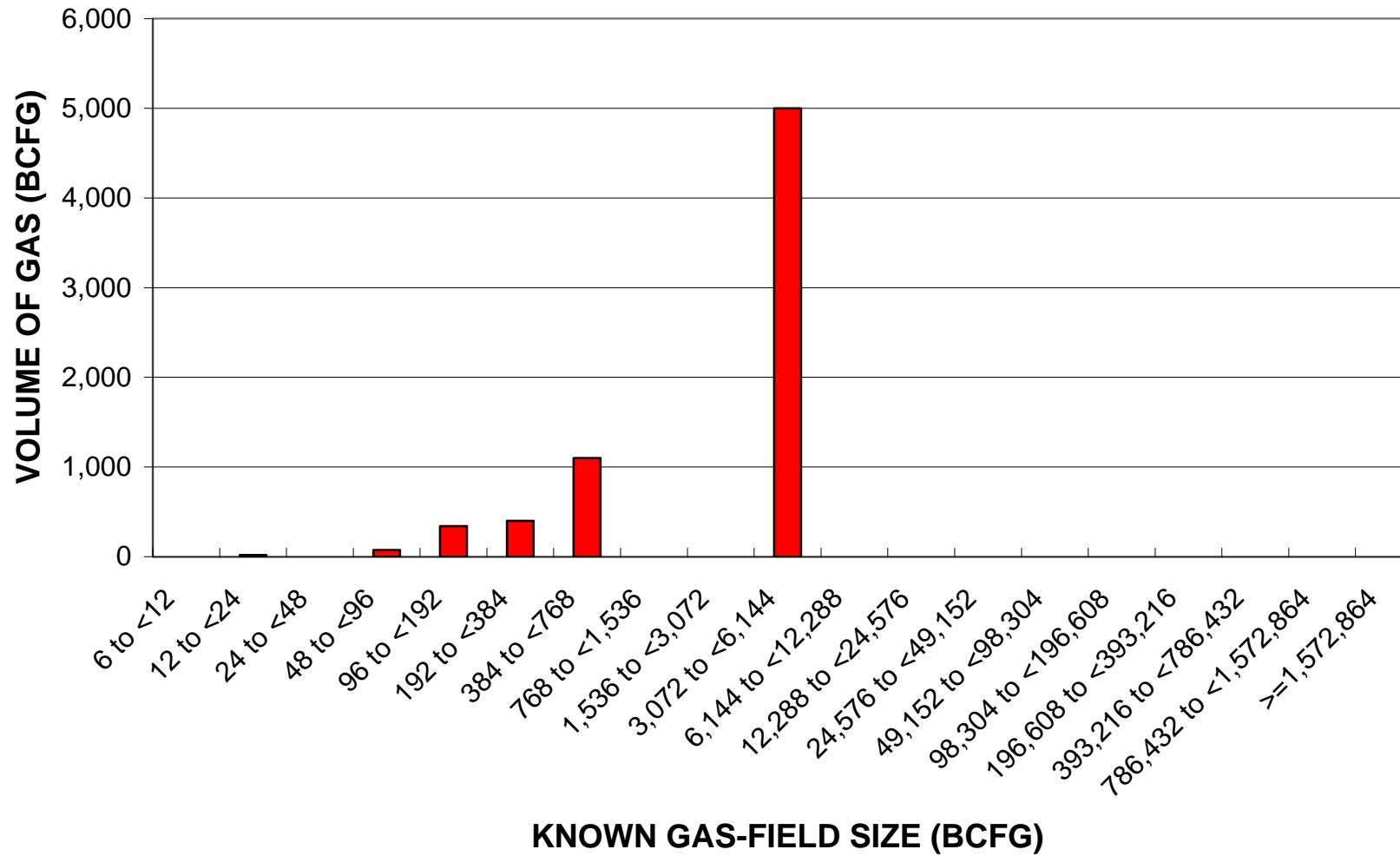
Ghaba-Makarem Combined Structural, Assessment Unit

20140101

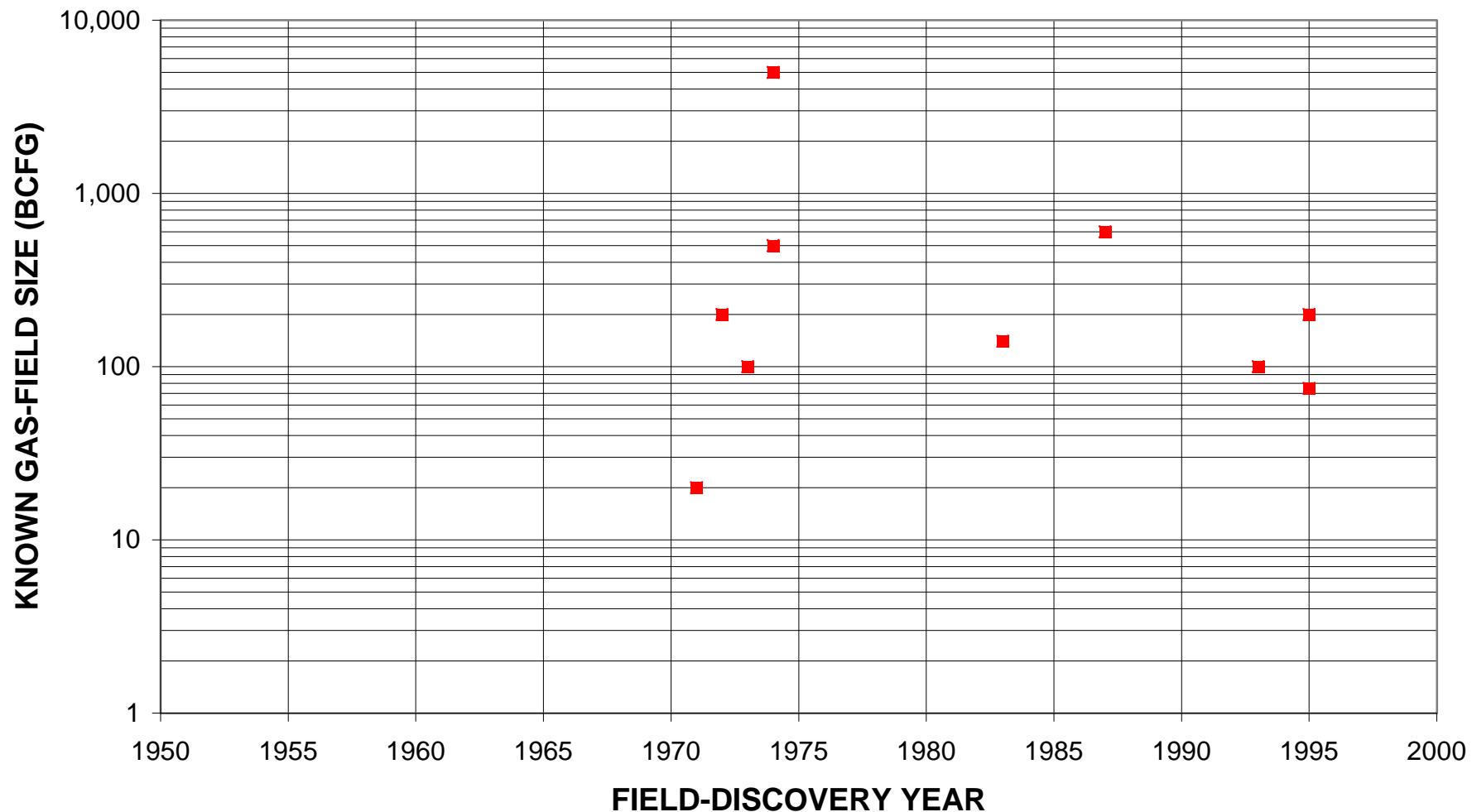


Ghaba-Makarem Combined Structural, Assessment Unit

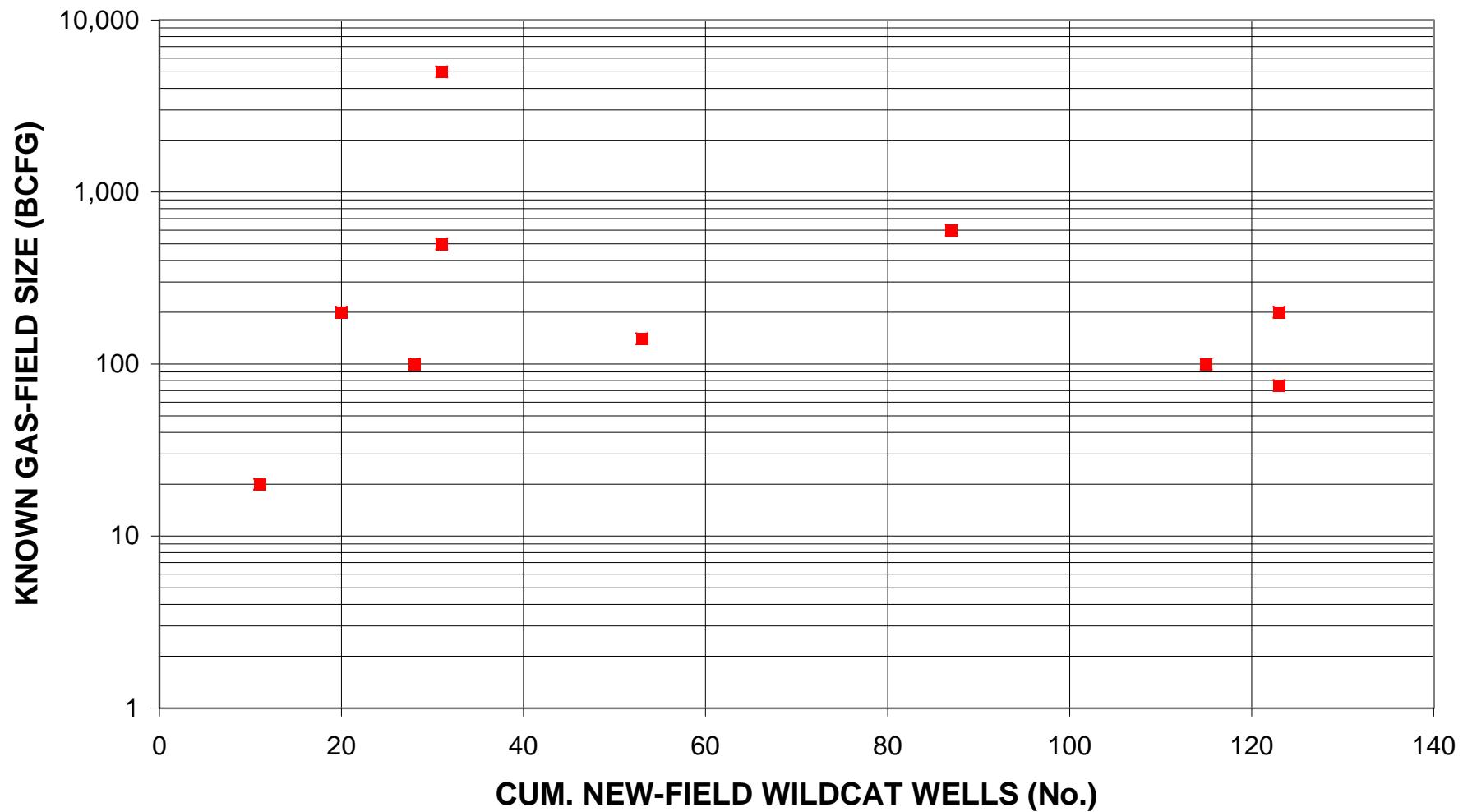
20140101



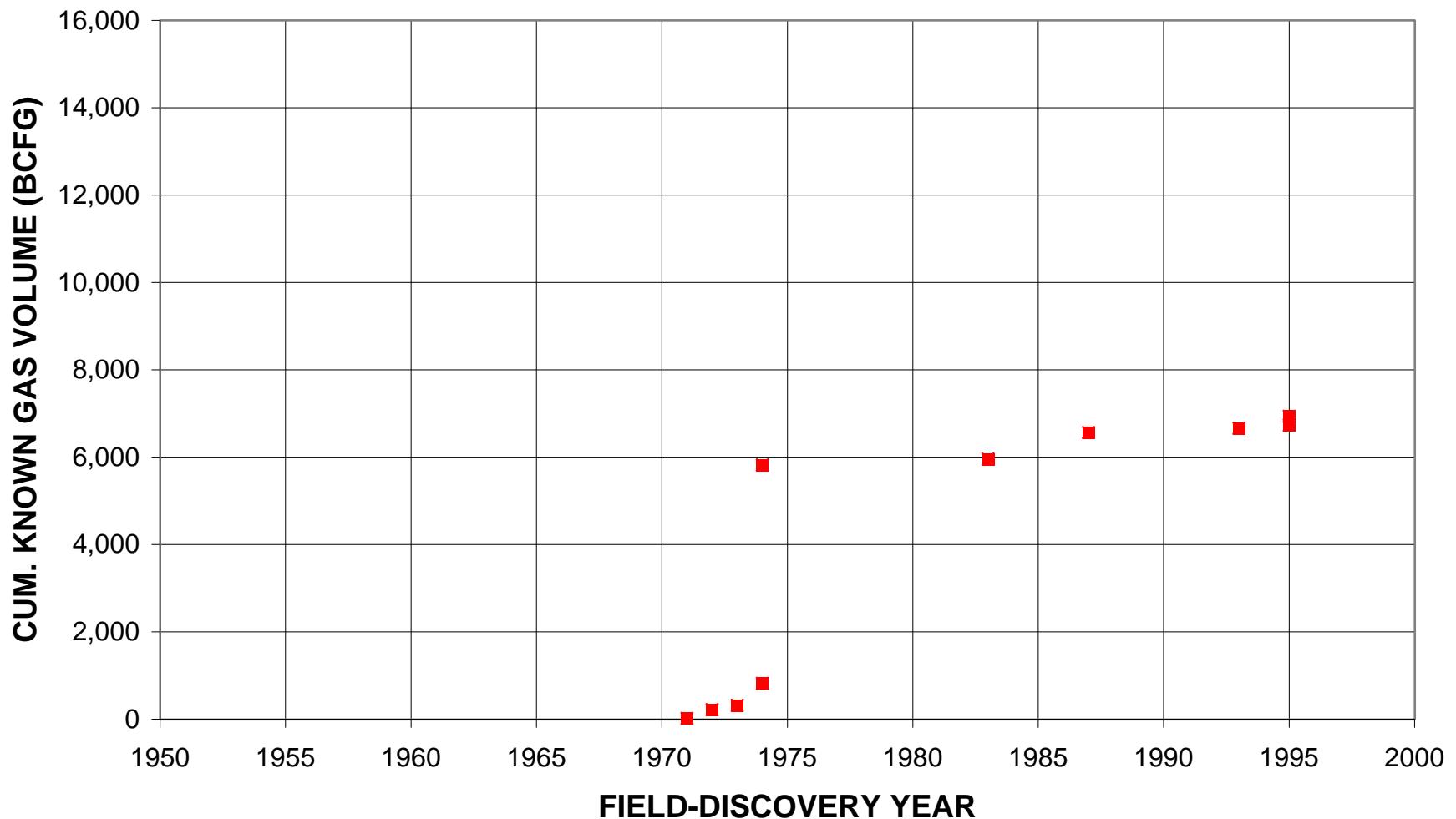
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



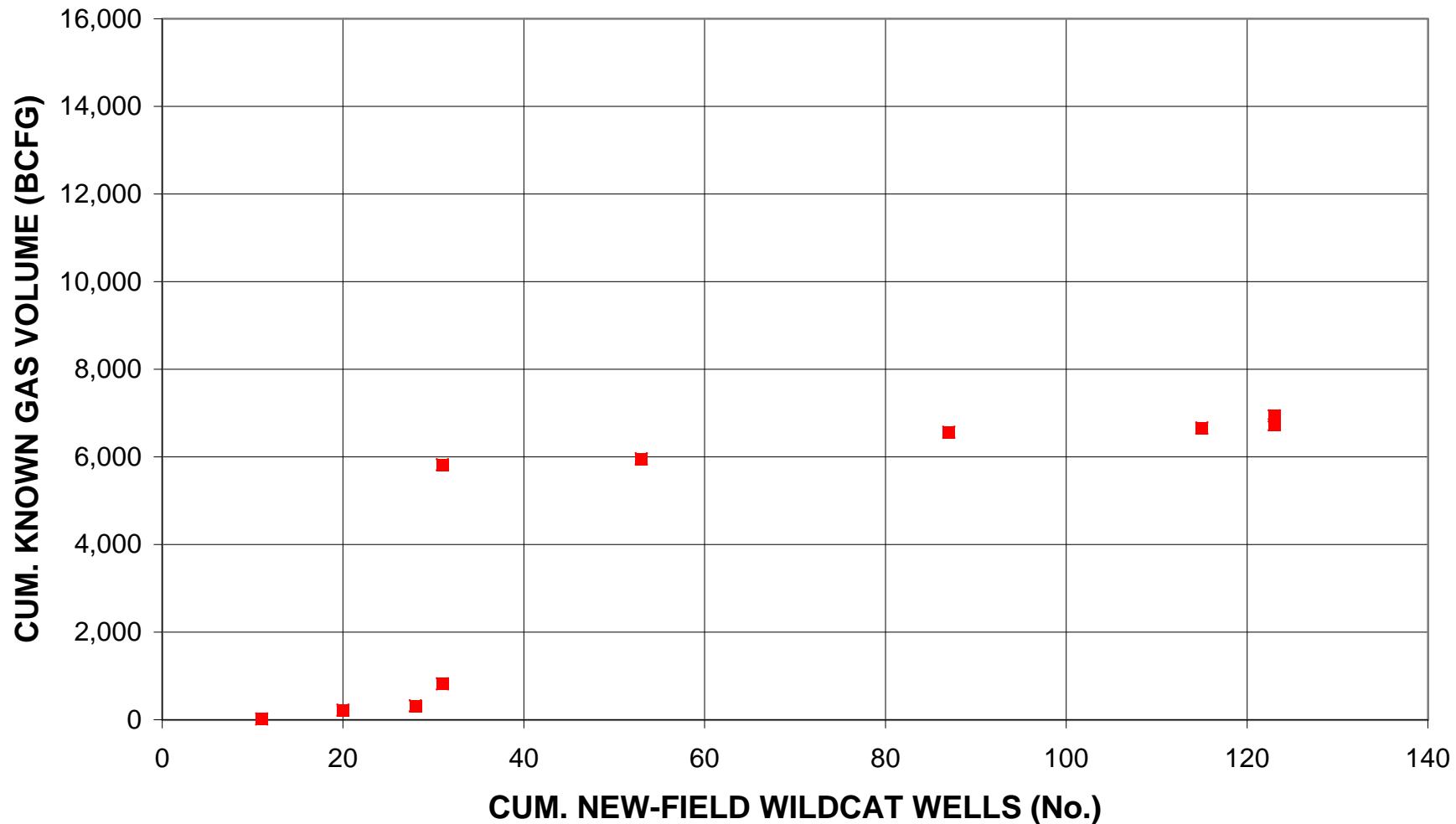
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



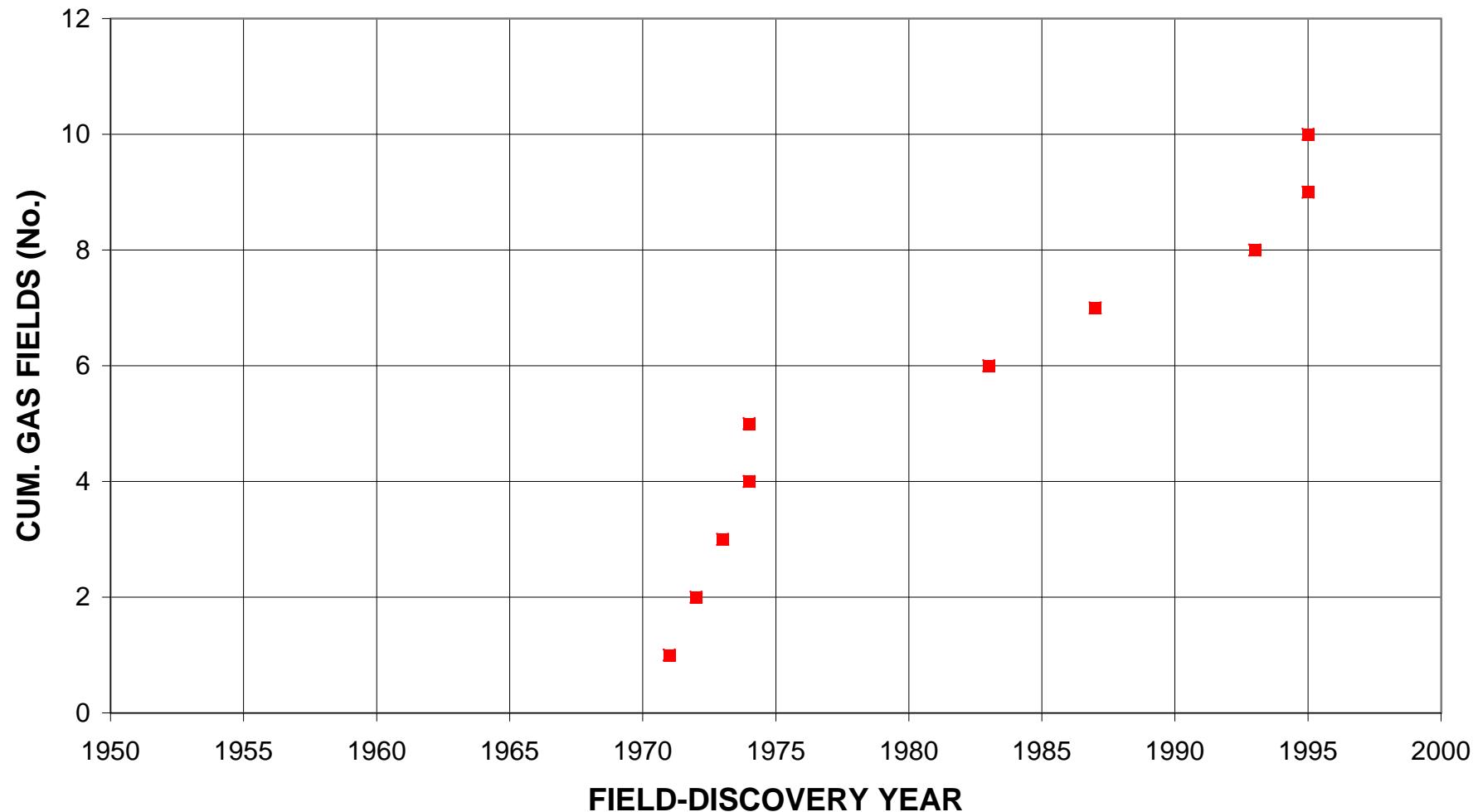
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



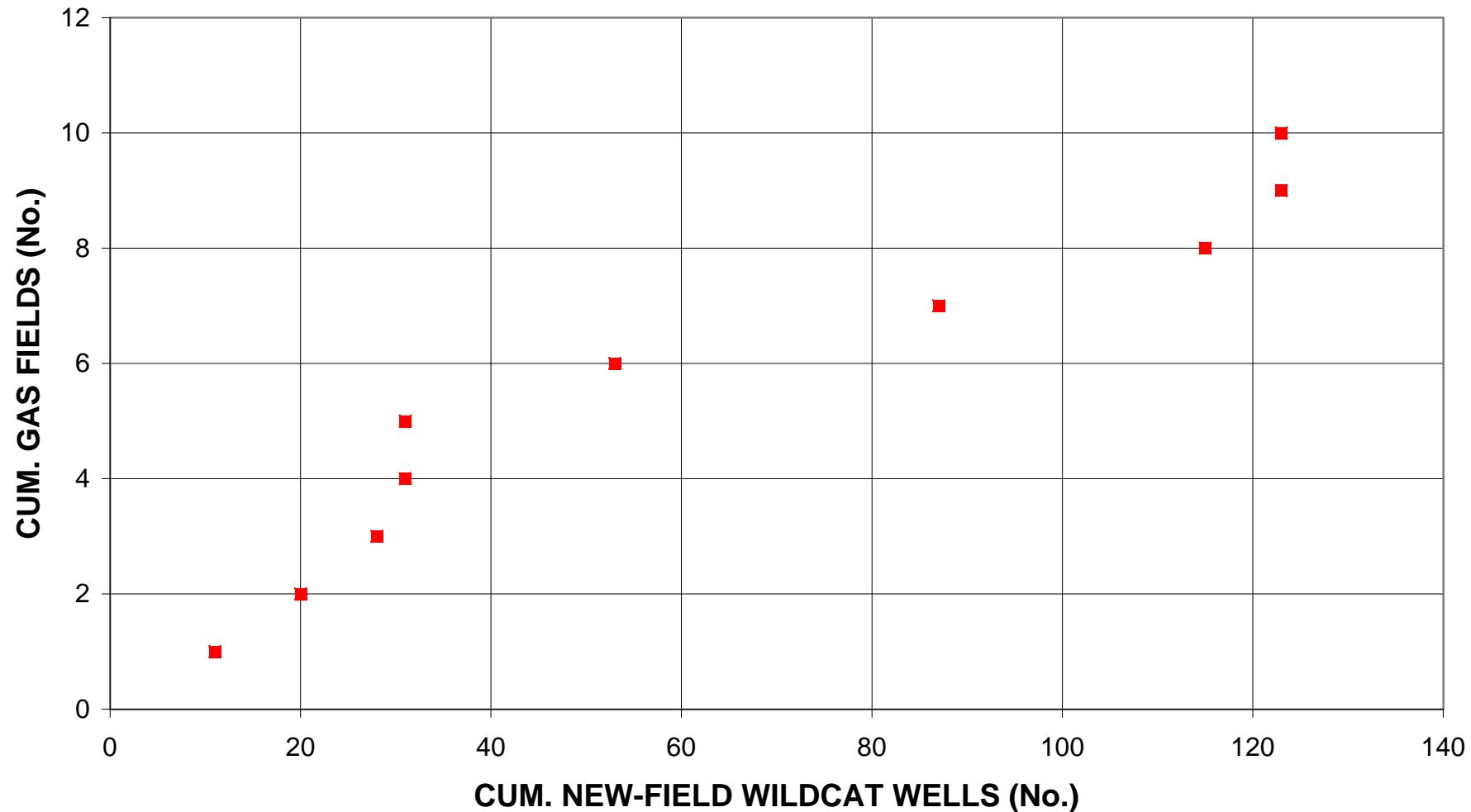
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



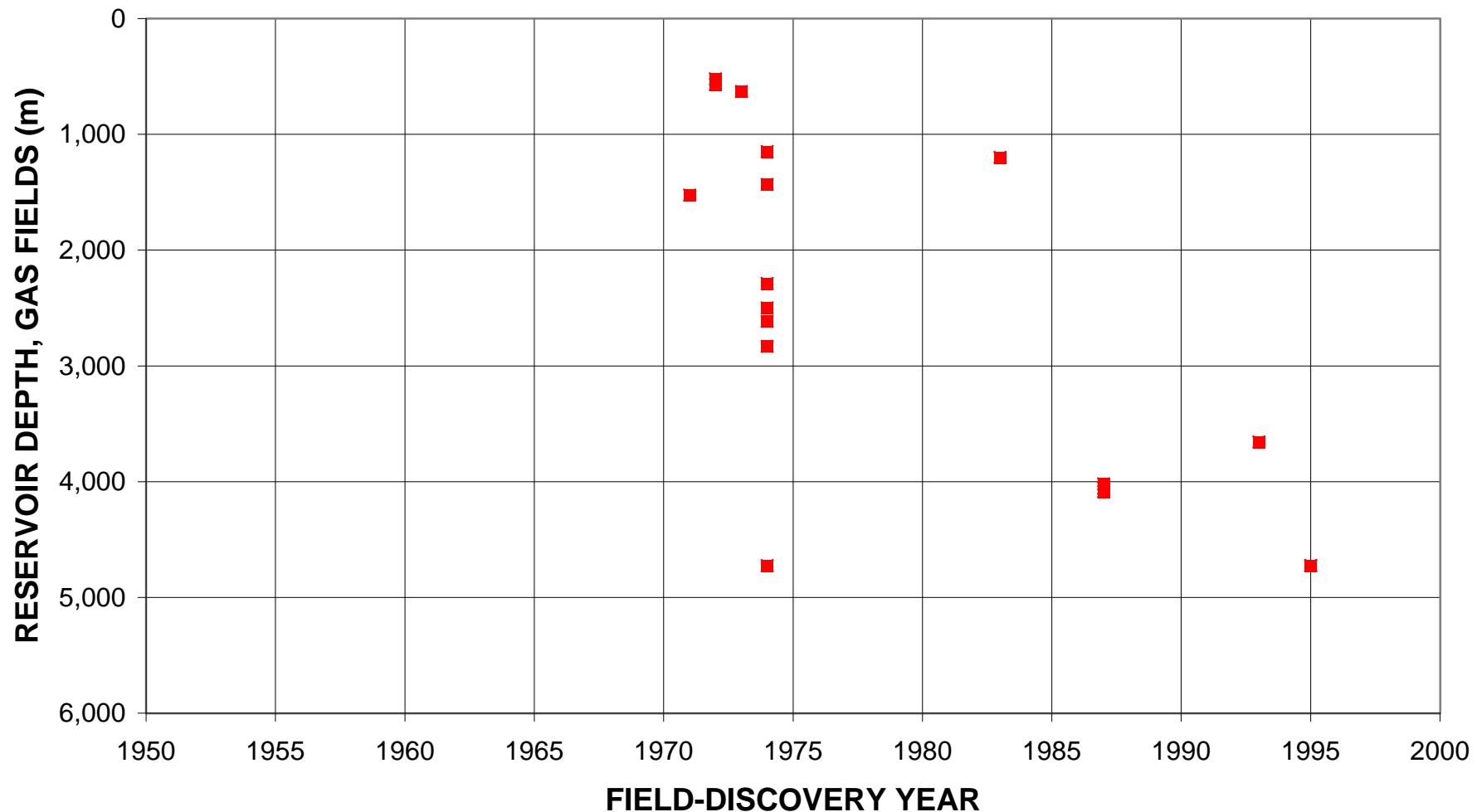
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



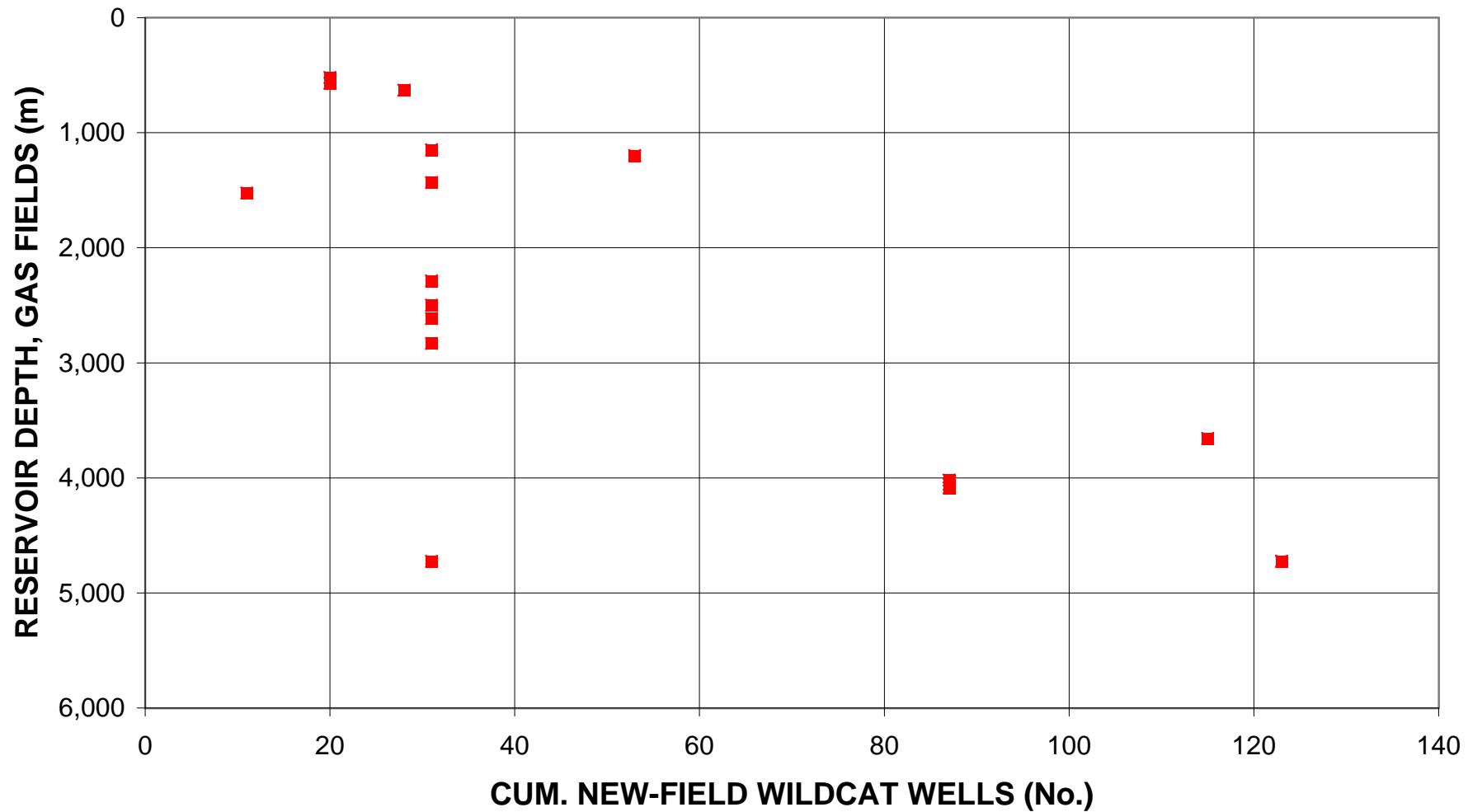
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



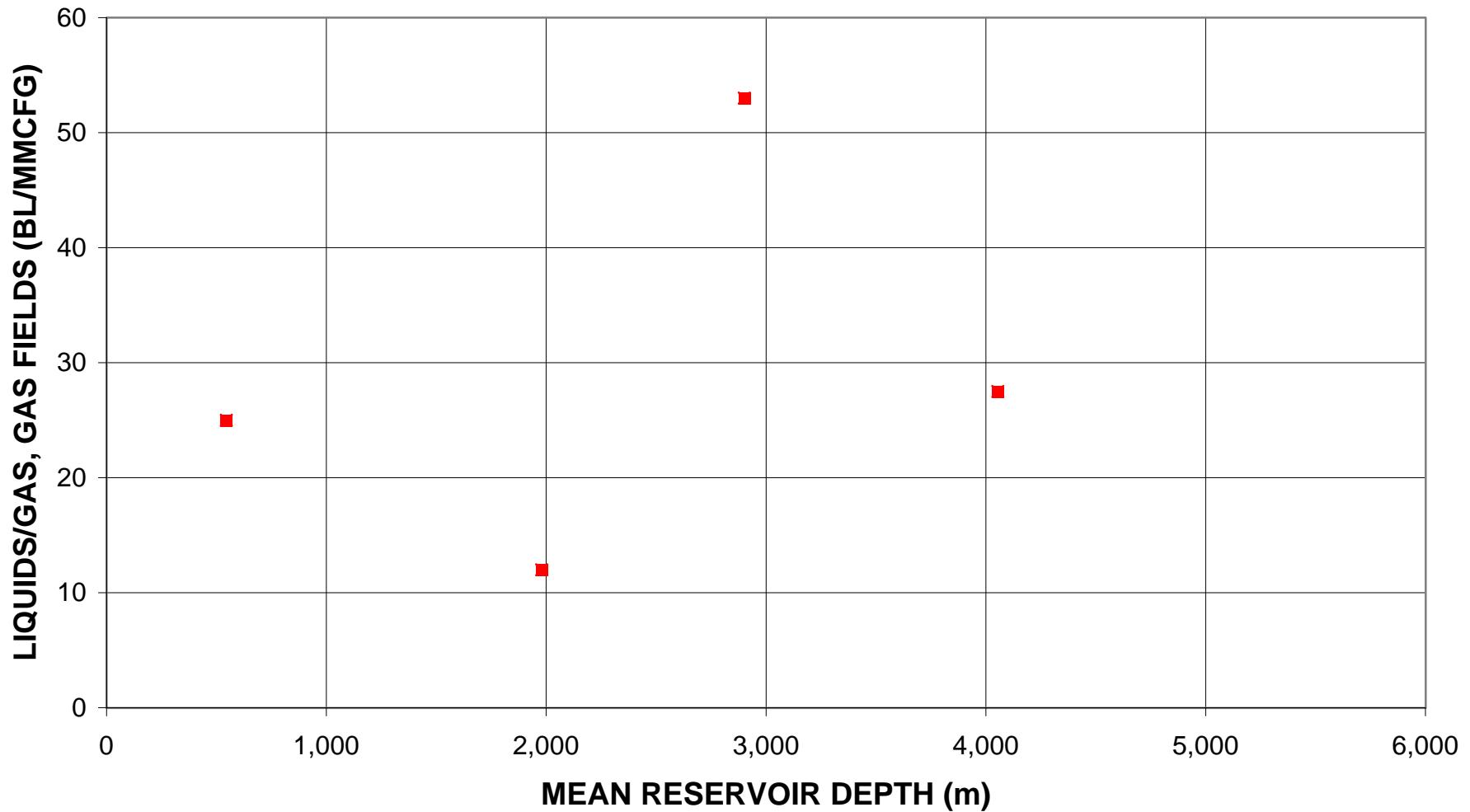
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



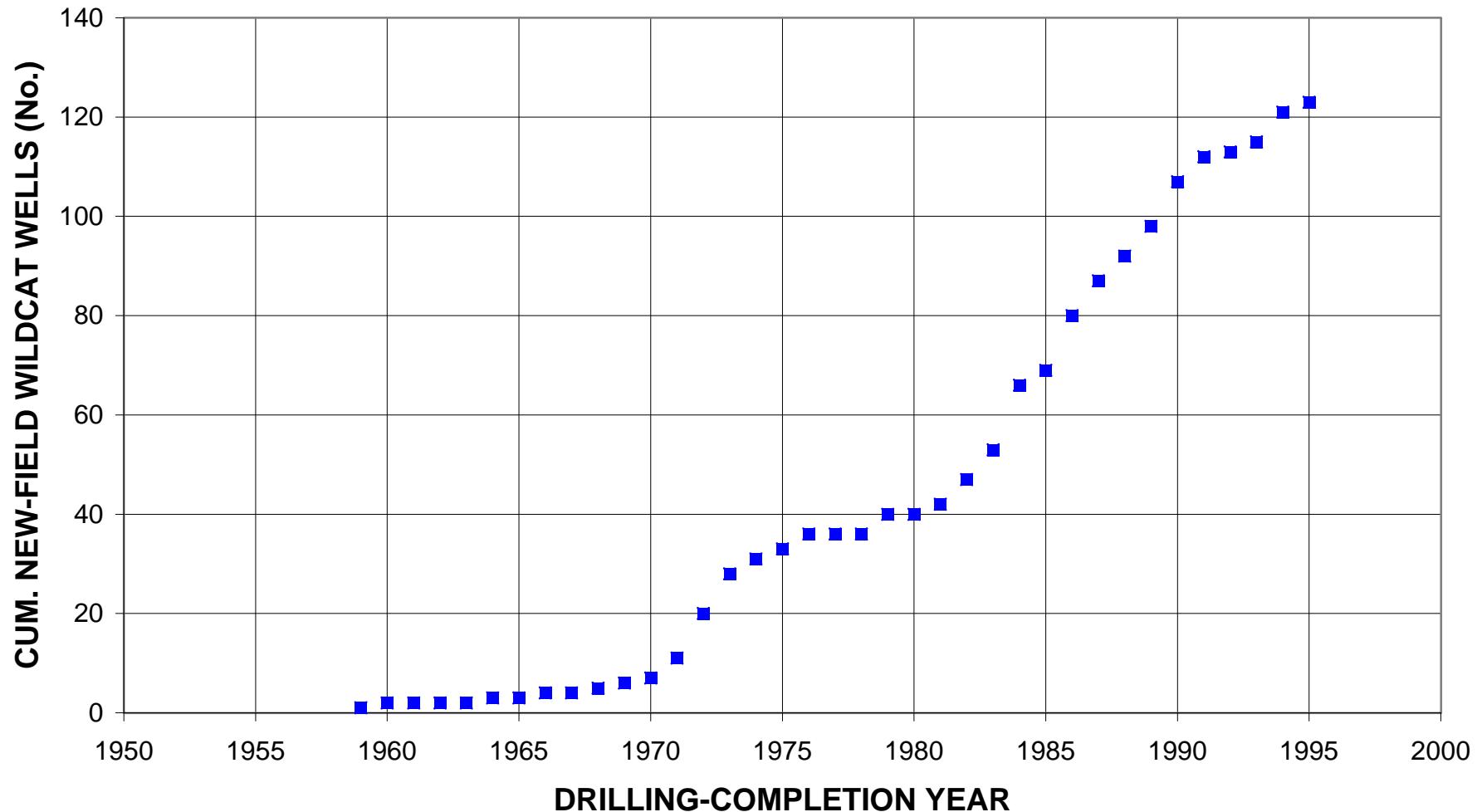
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



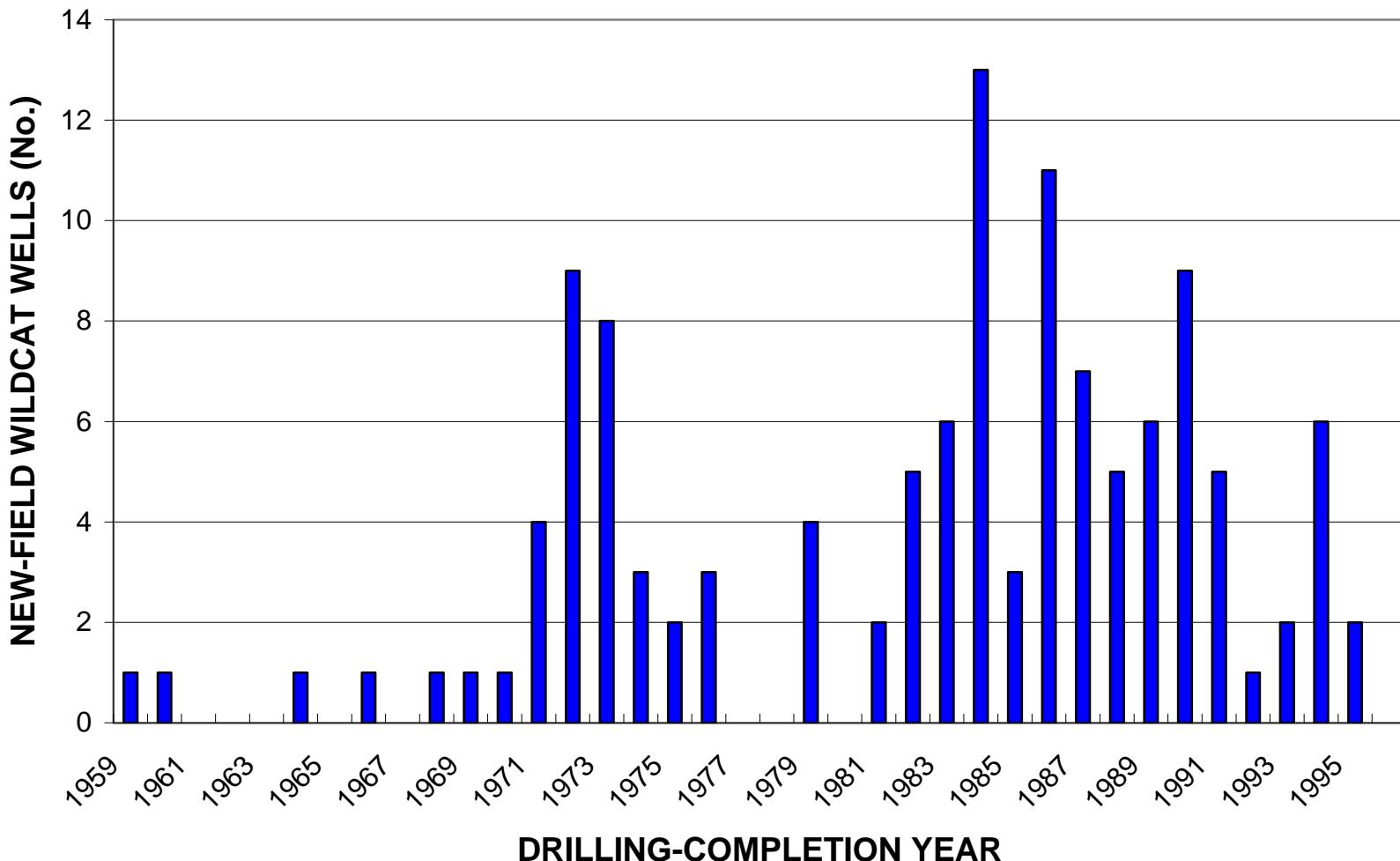
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



Ghaba-Makarem Combined Structural, Assessment Unit
20140101

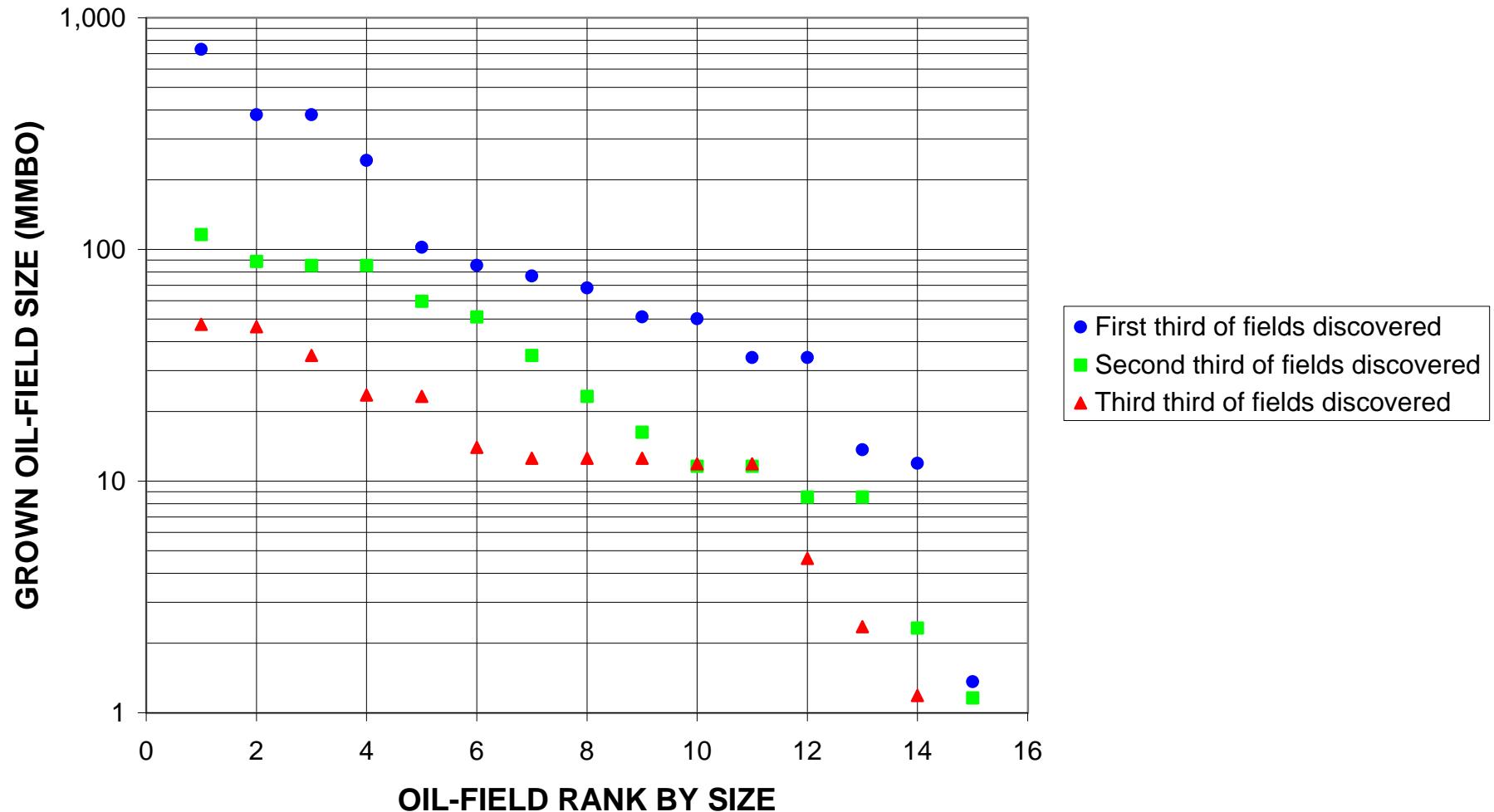


Ghaba-Makarem Combined Structural, Assessment Unit
20140101



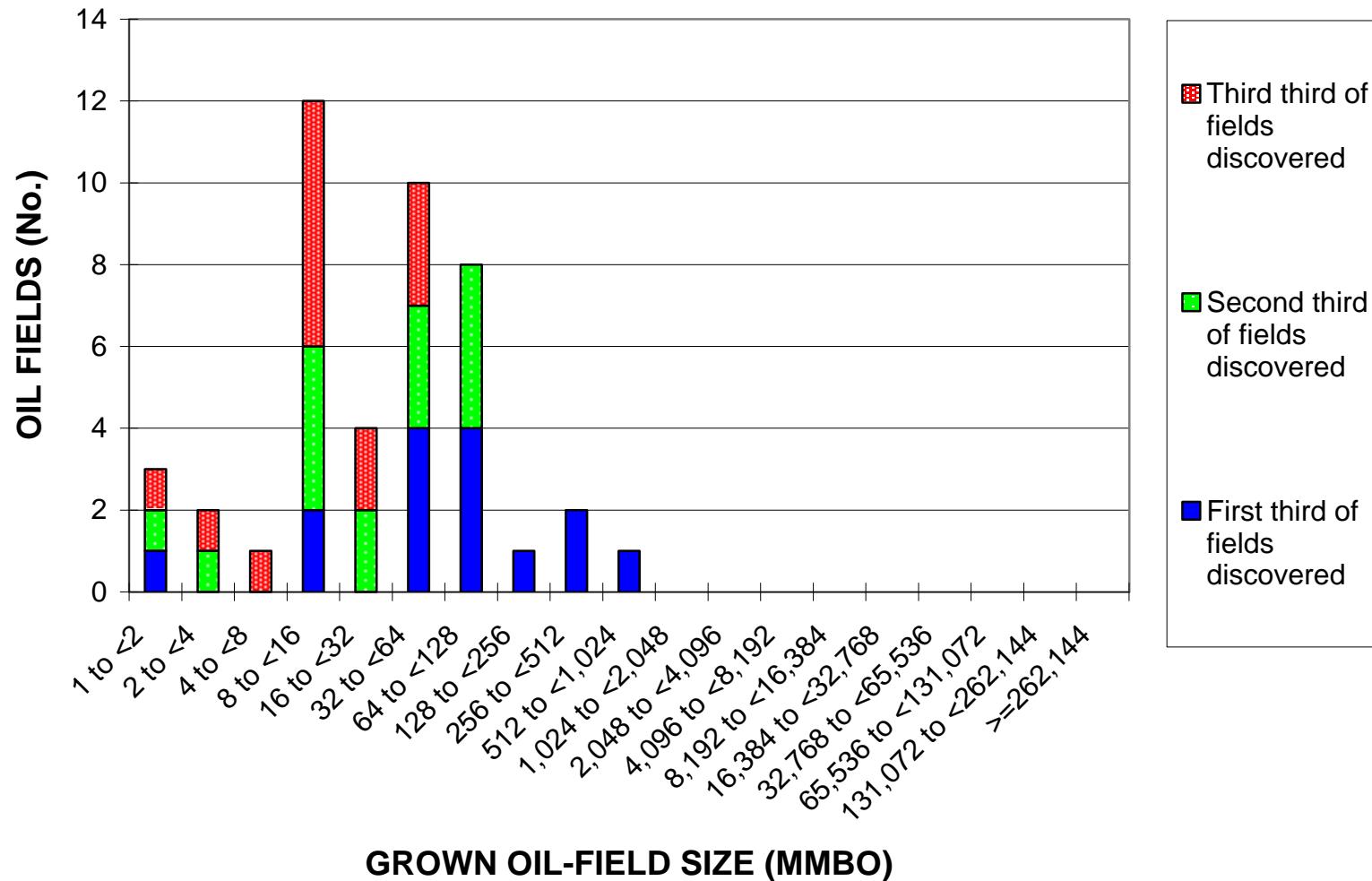
Ghaba-Makarem Combined Structural, Assessment Unit

20140101

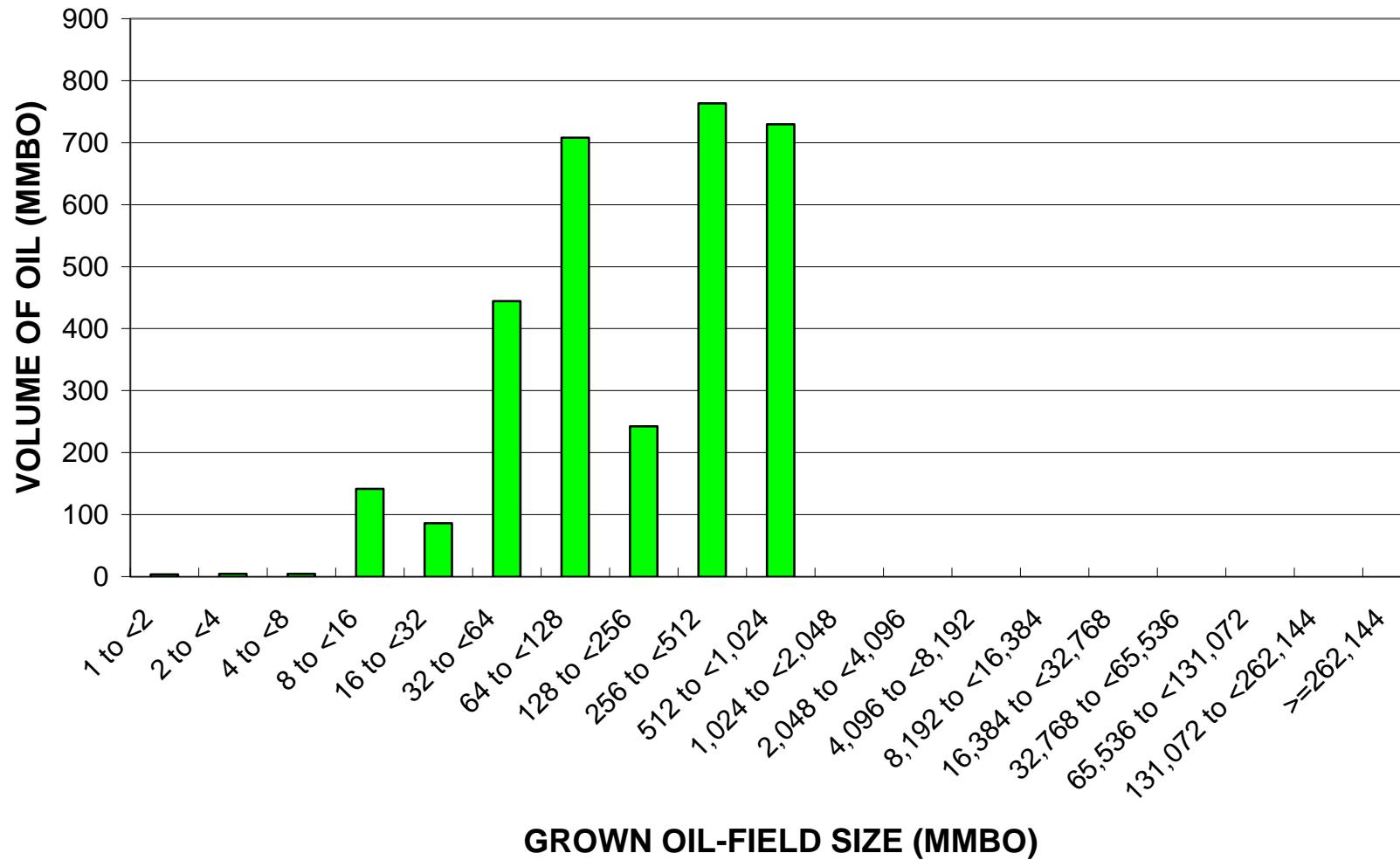


Ghaba-Makarem Combined Structural, Assessment Unit

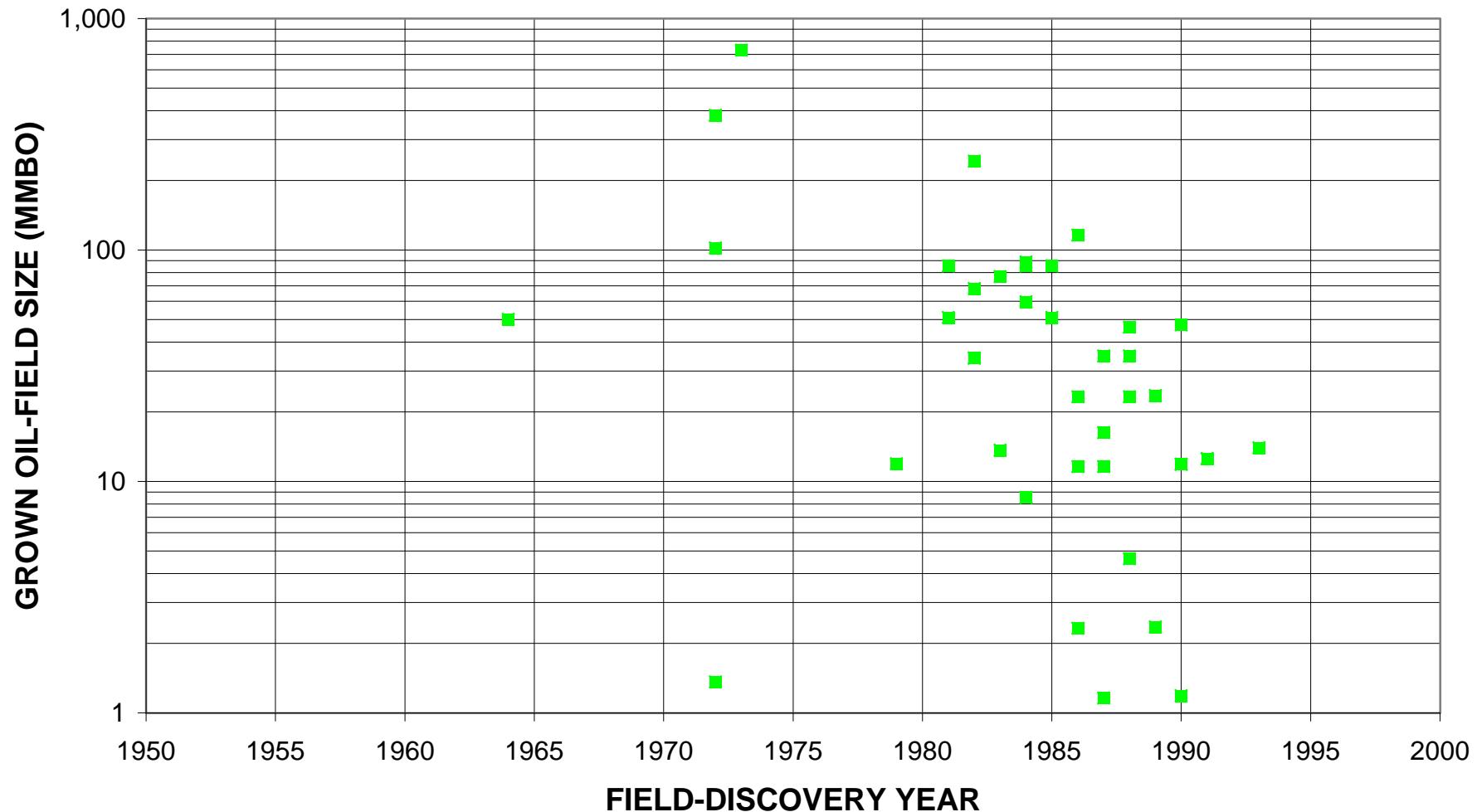
20140101



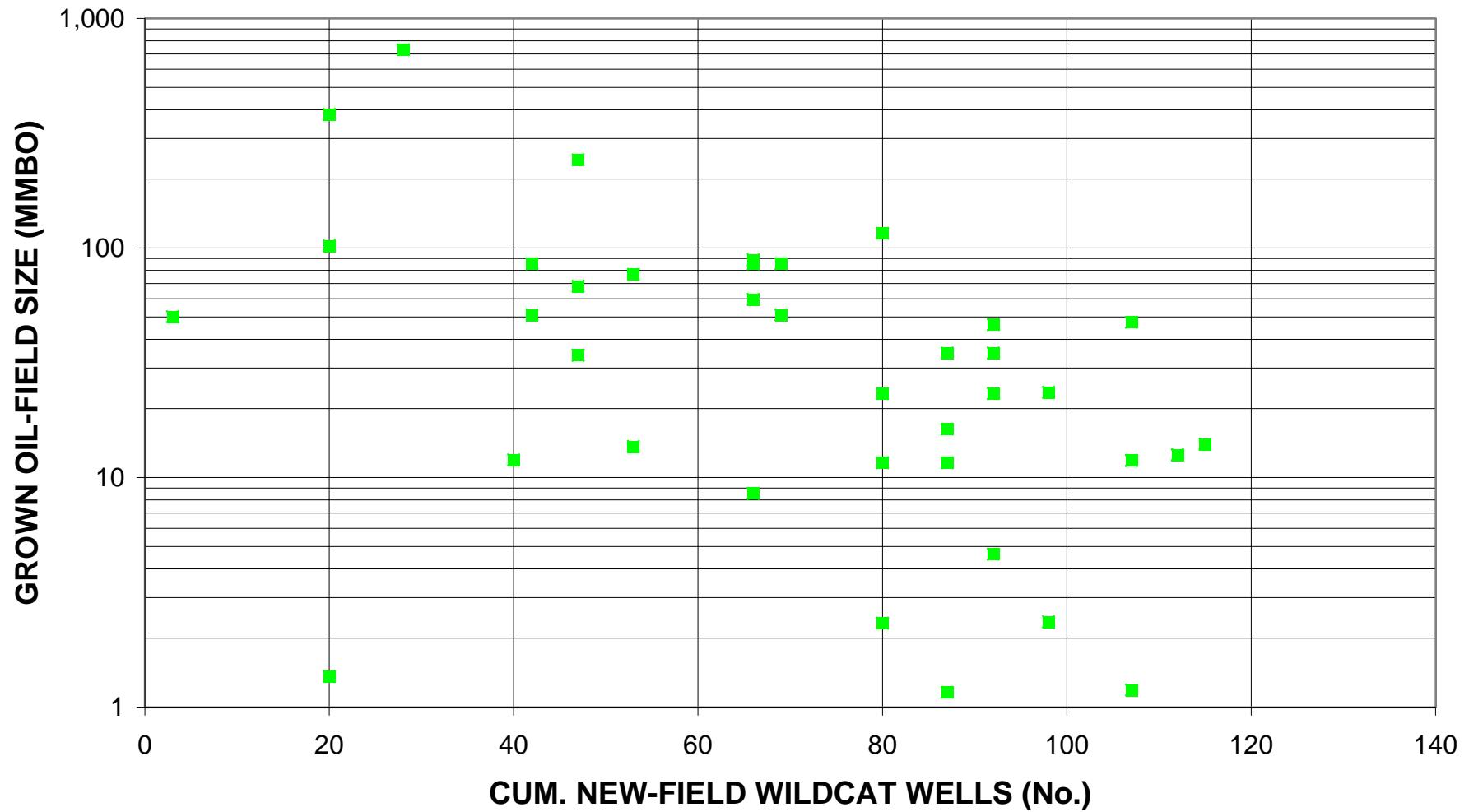
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



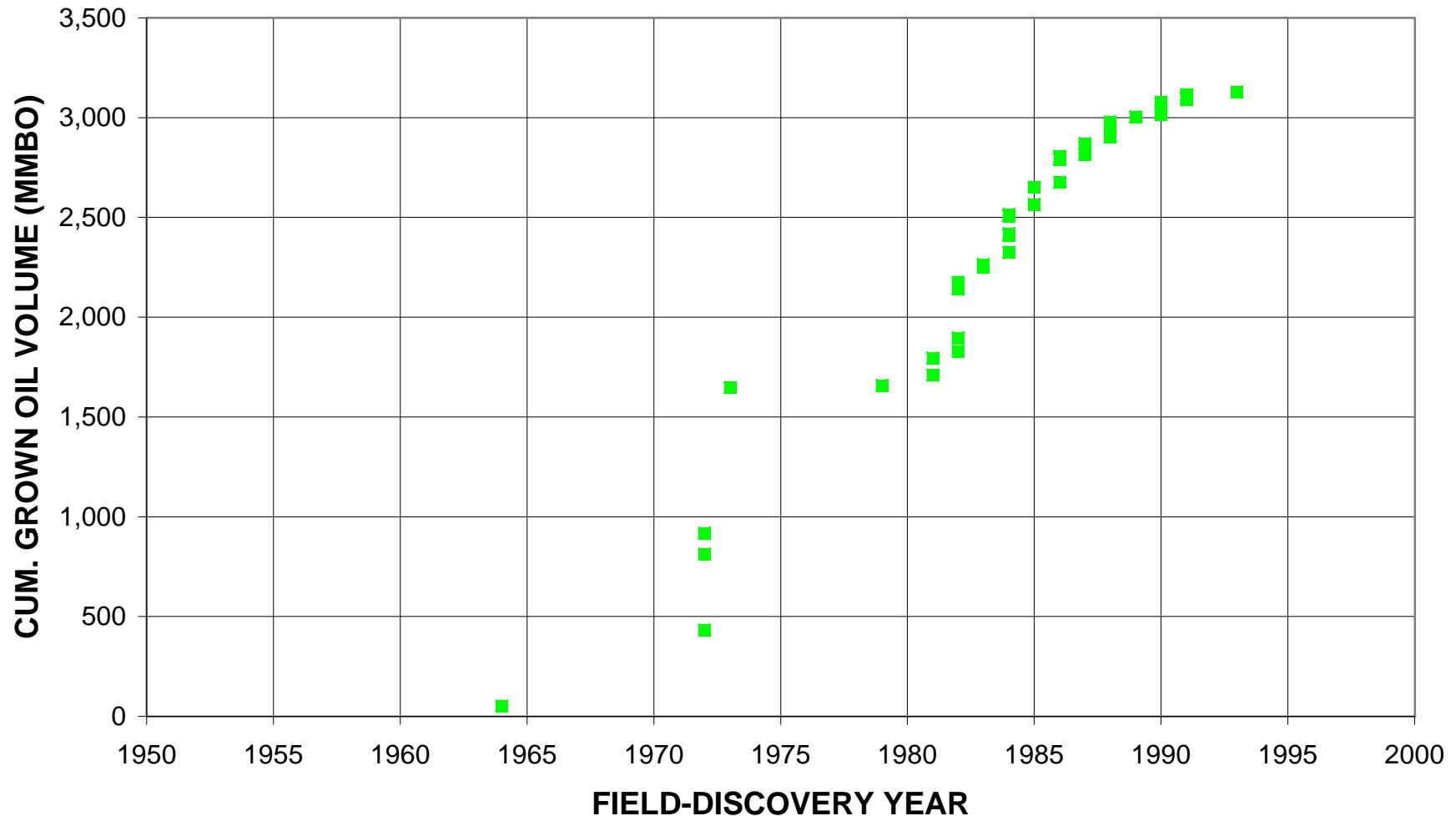
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



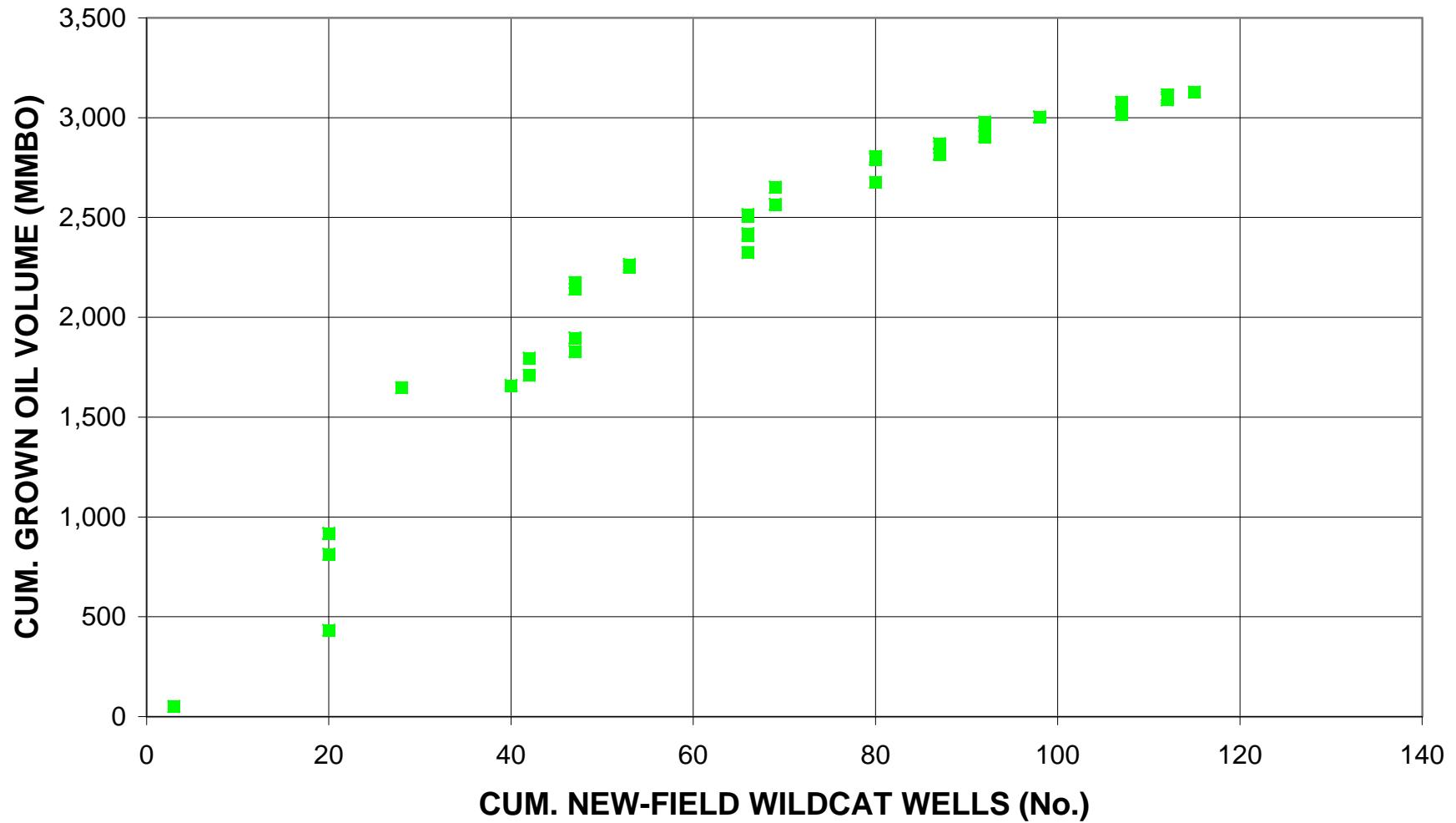
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



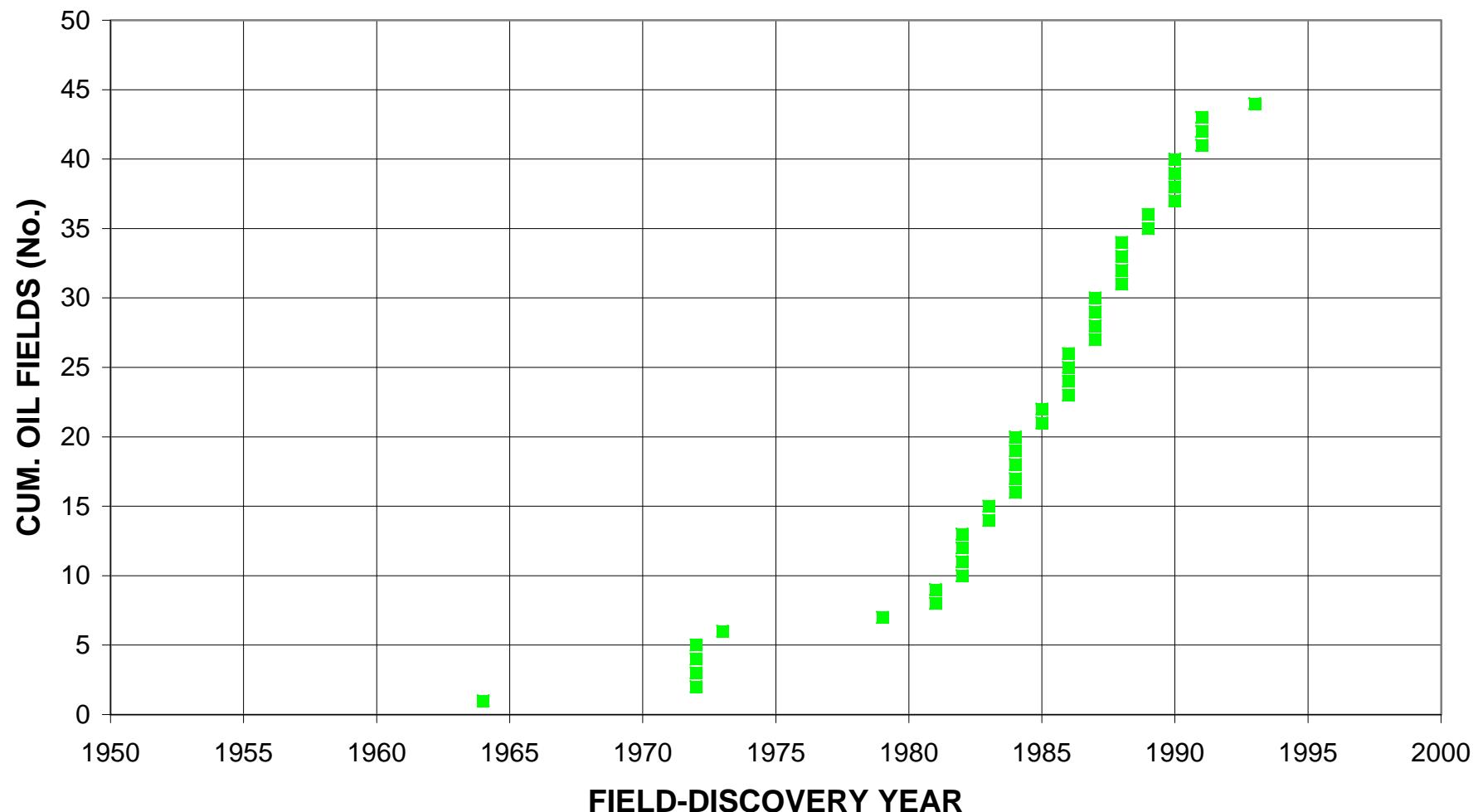
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



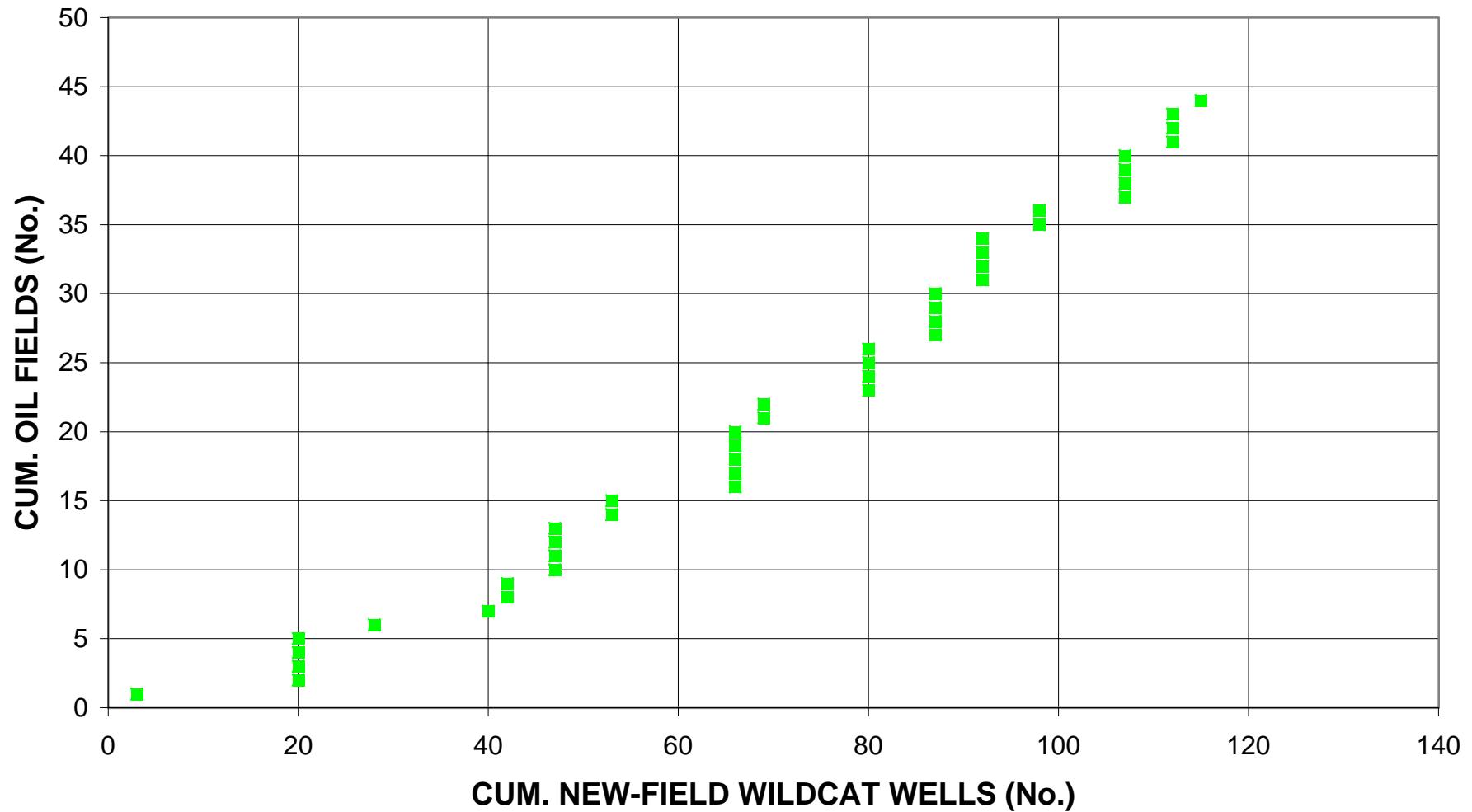
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



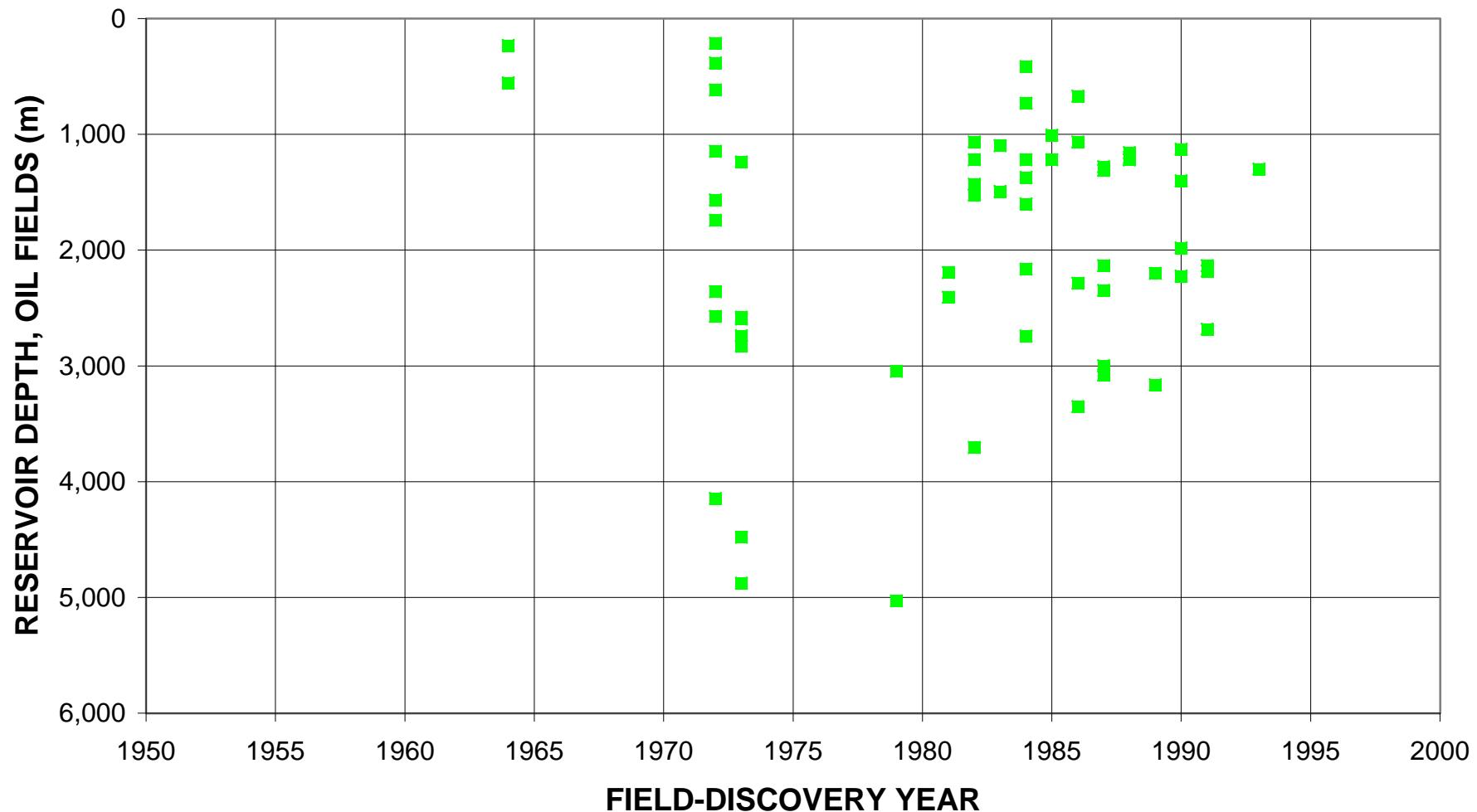
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



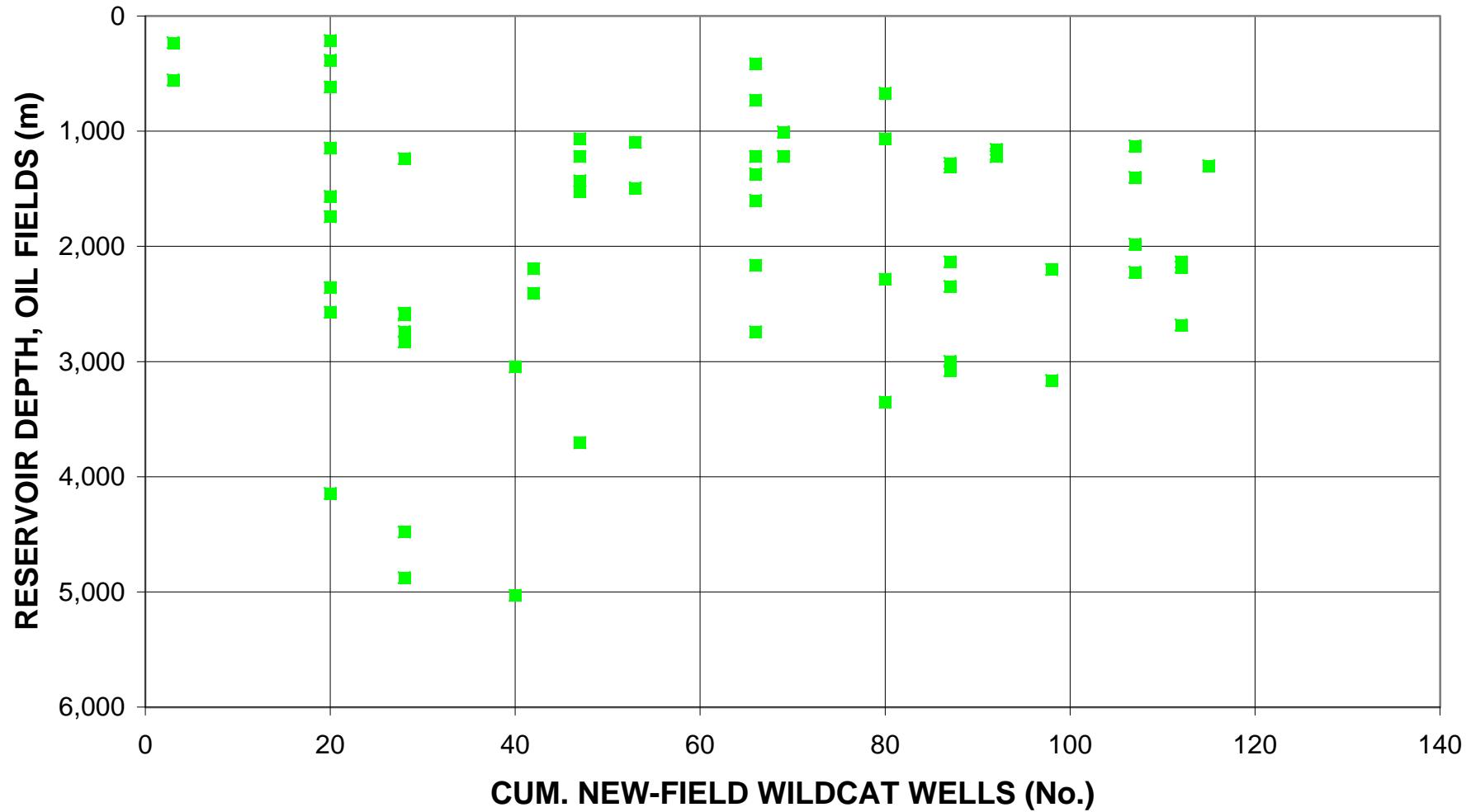
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



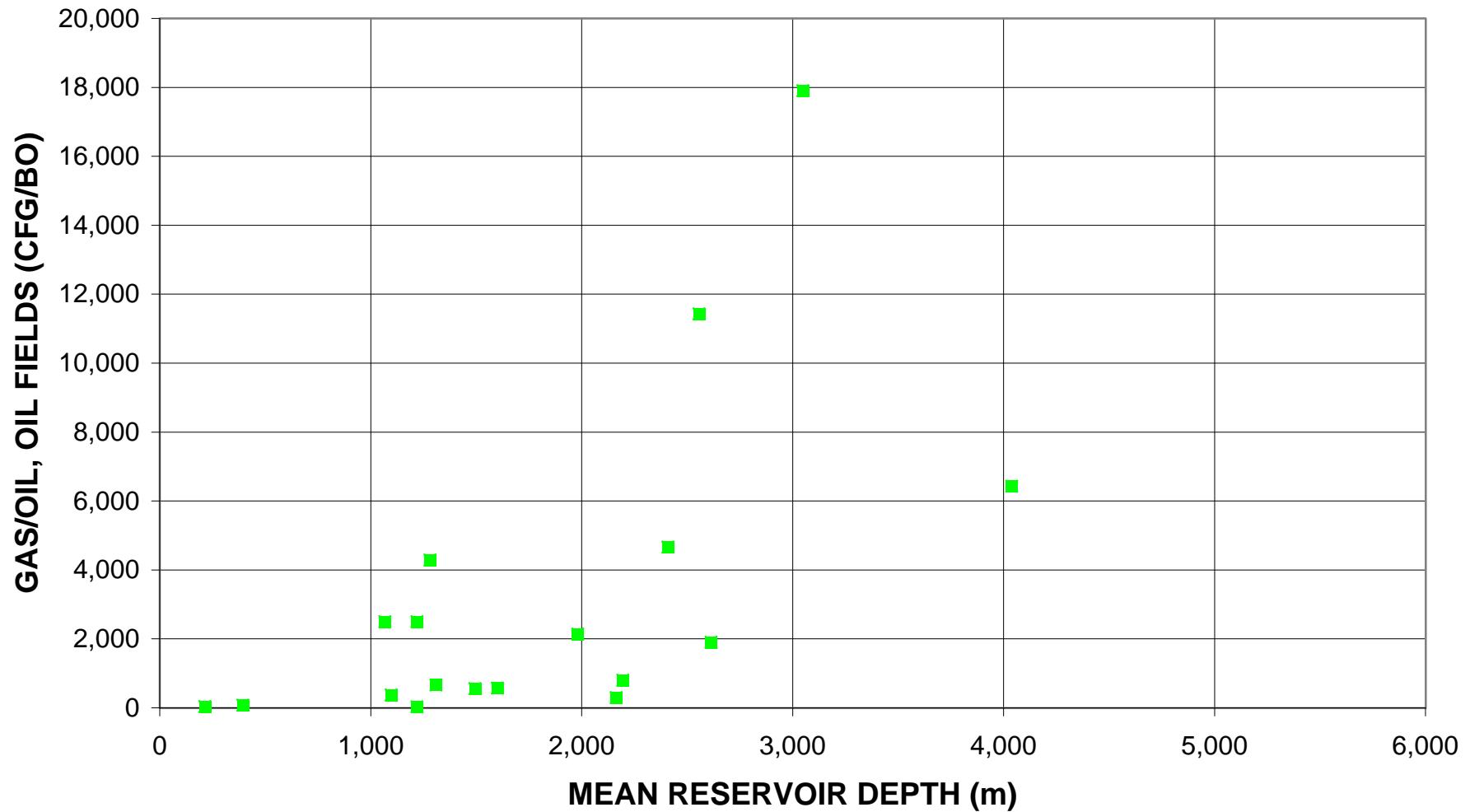
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



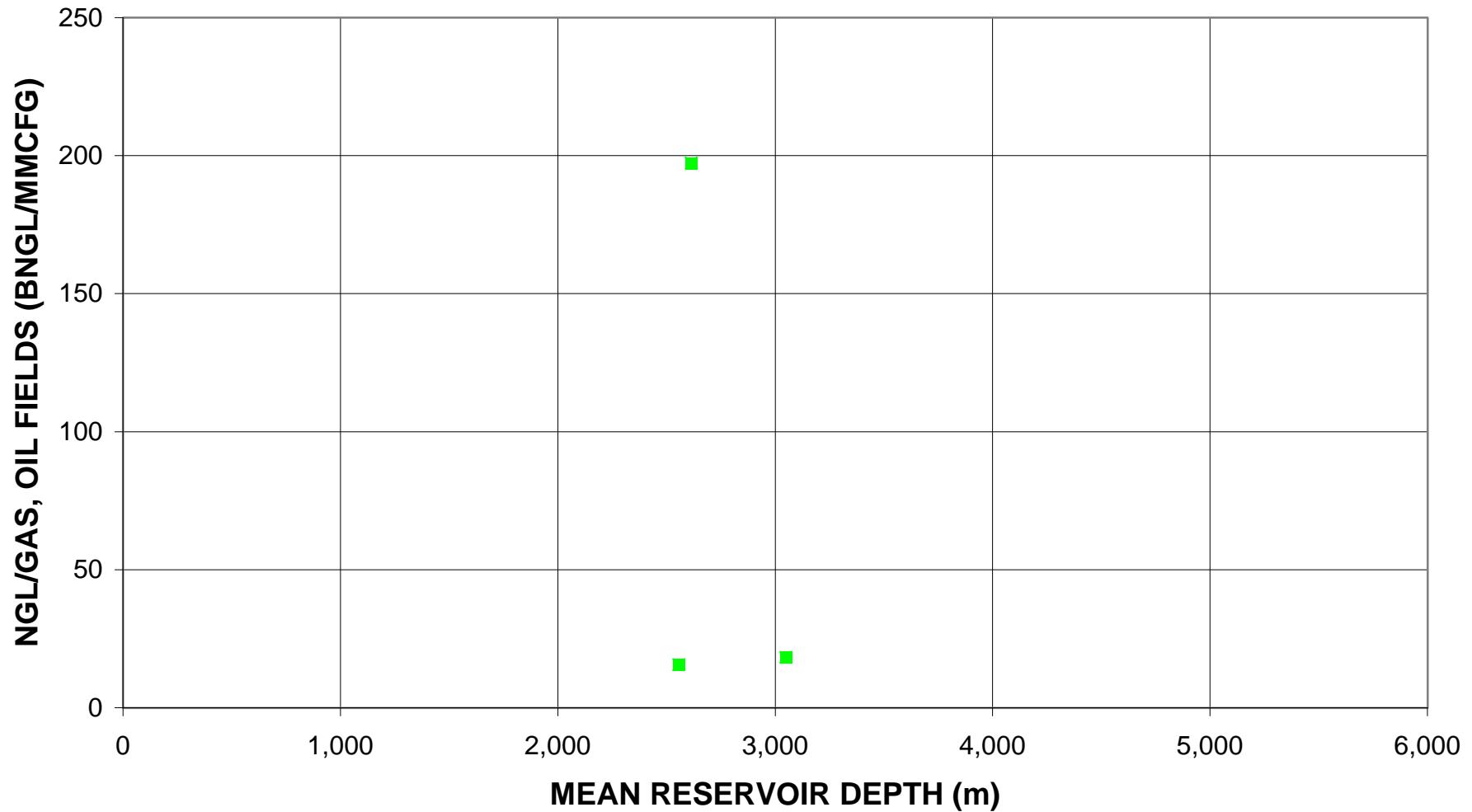
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



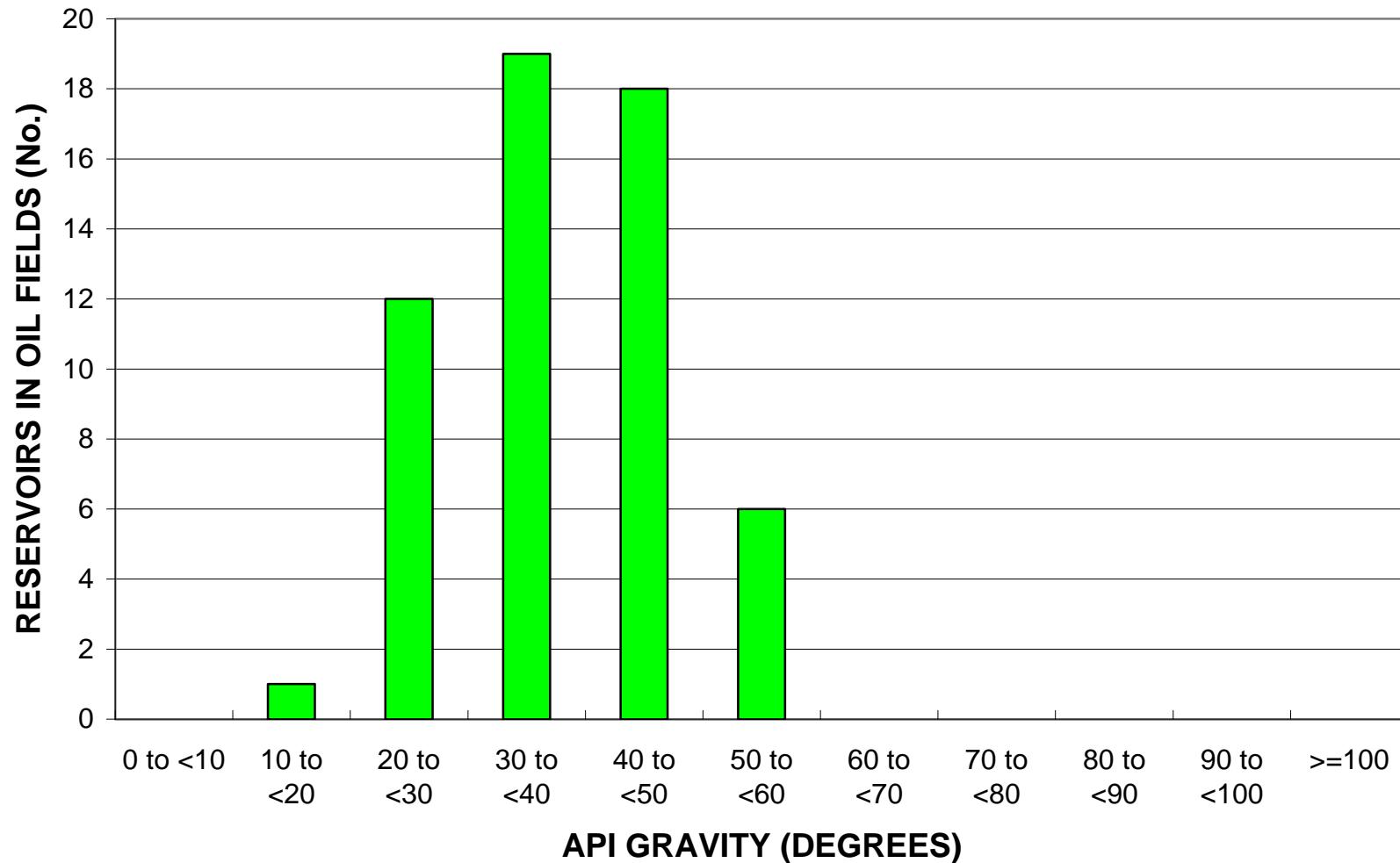
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



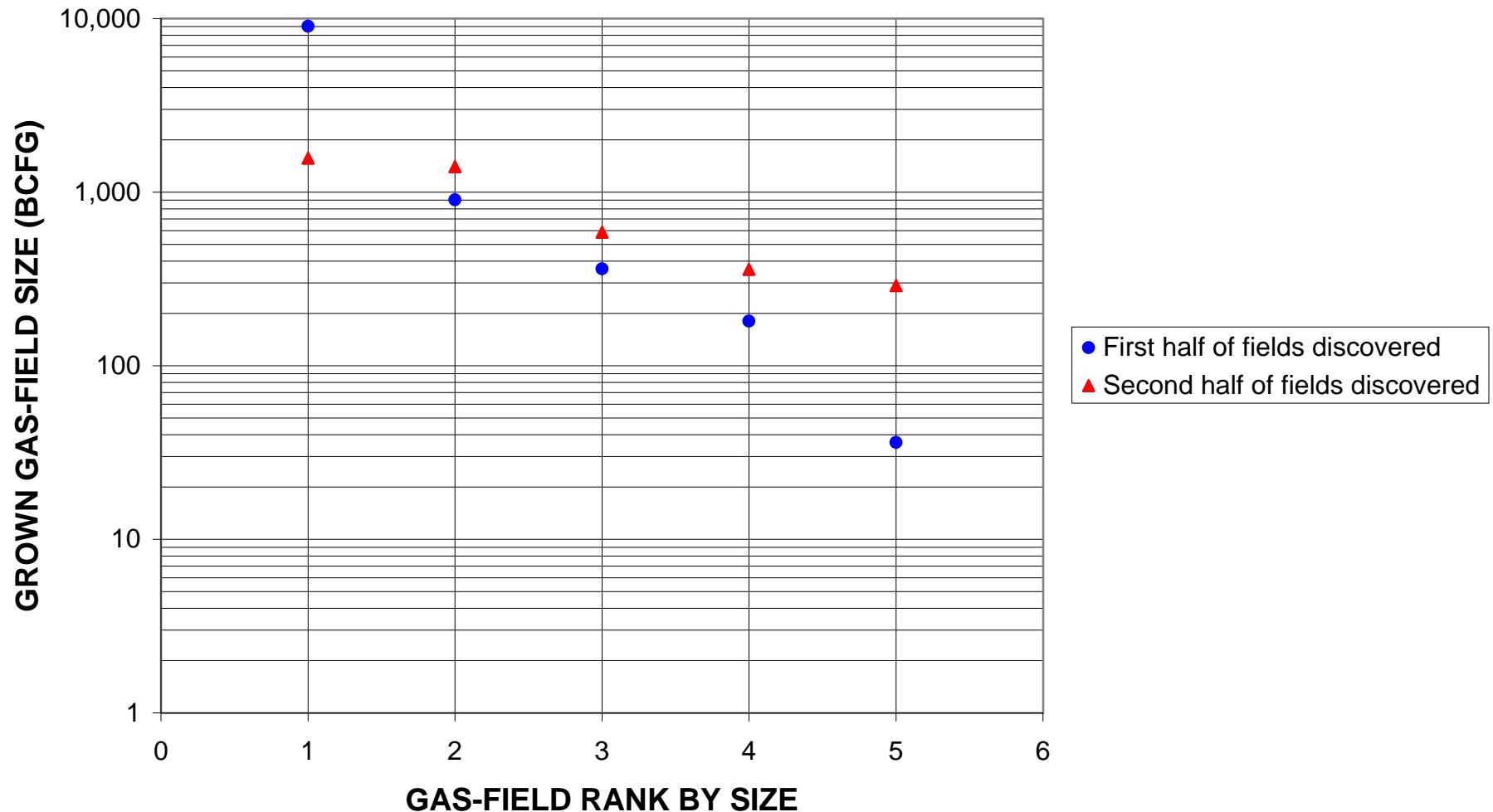
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



Ghaba-Makarem Combined Structural, Assessment Unit
20140101

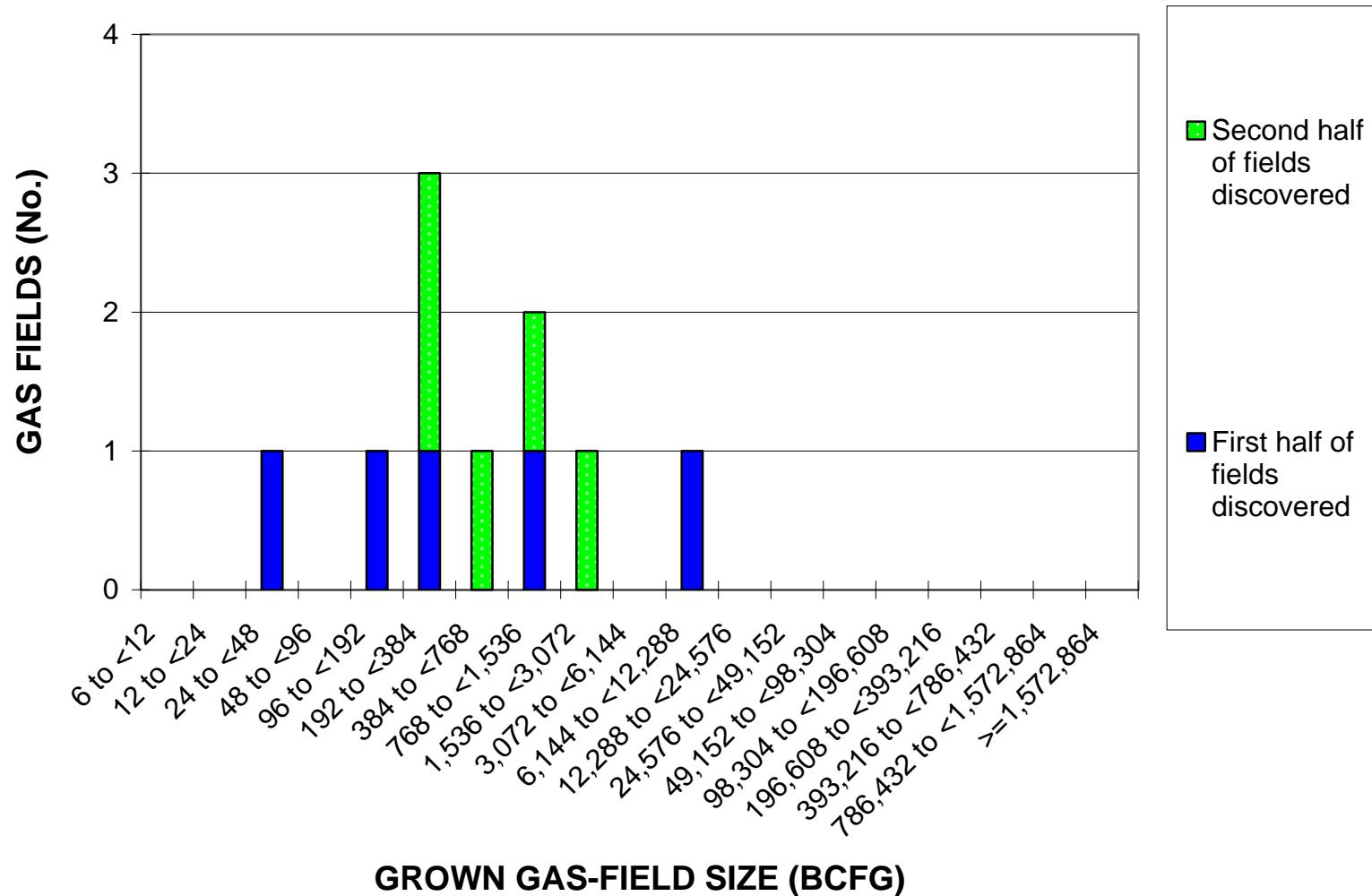


Ghaba-Makarem Combined Structural, Assessment Unit
20140101



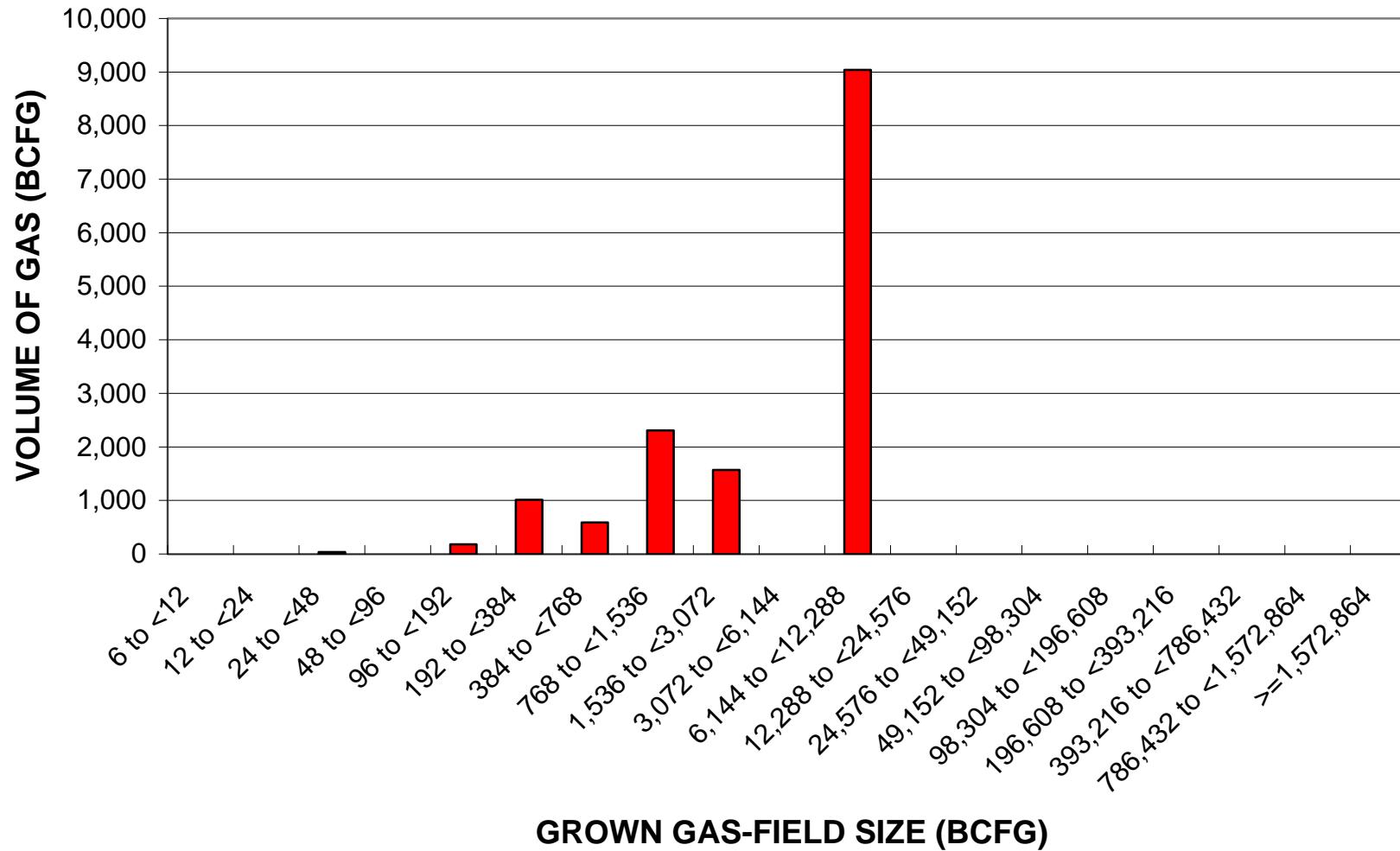
Ghaba-Makarem Combined Structural, Assessment Unit

20140101

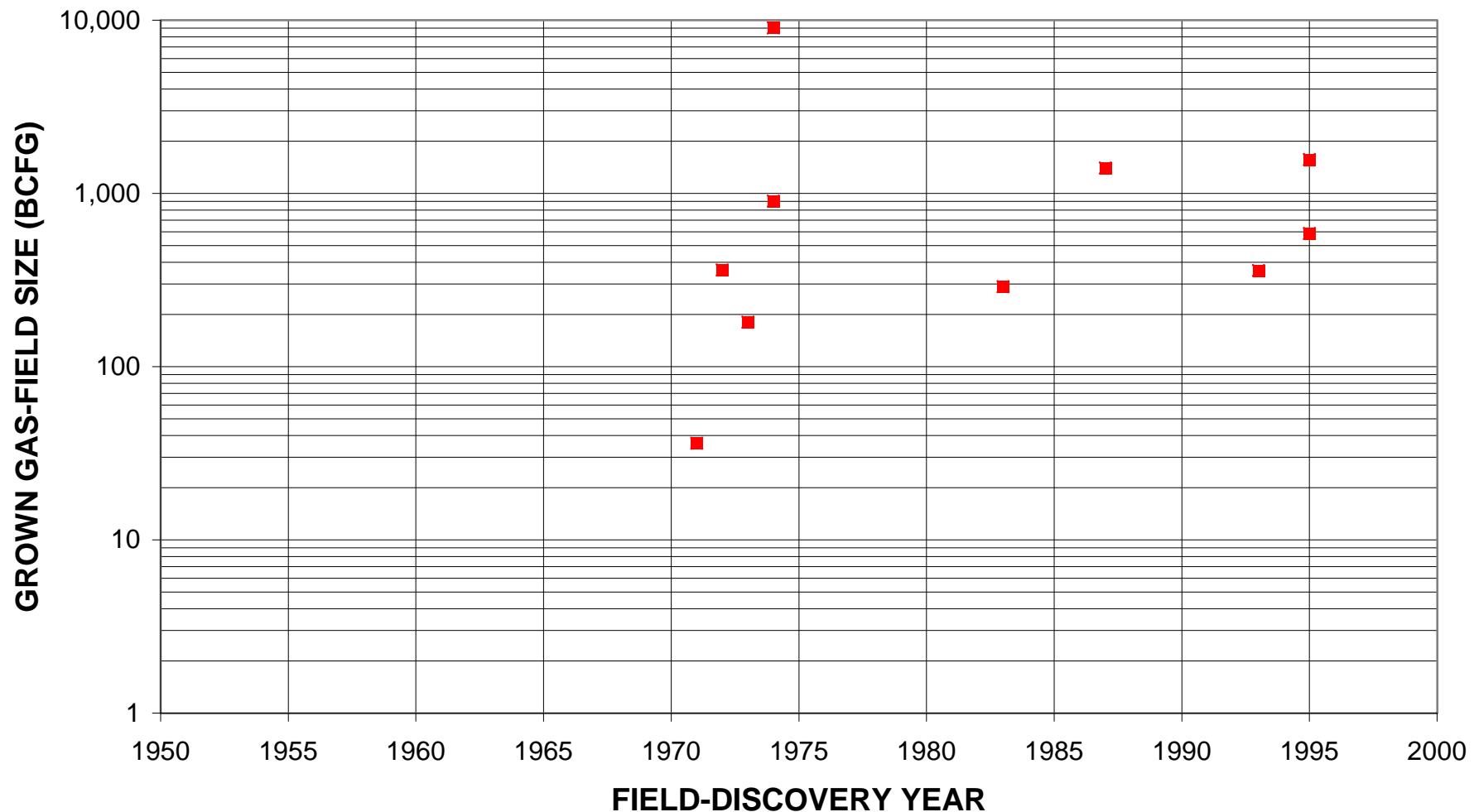


Ghaba-Makarem Combined Structural, Assessment Unit

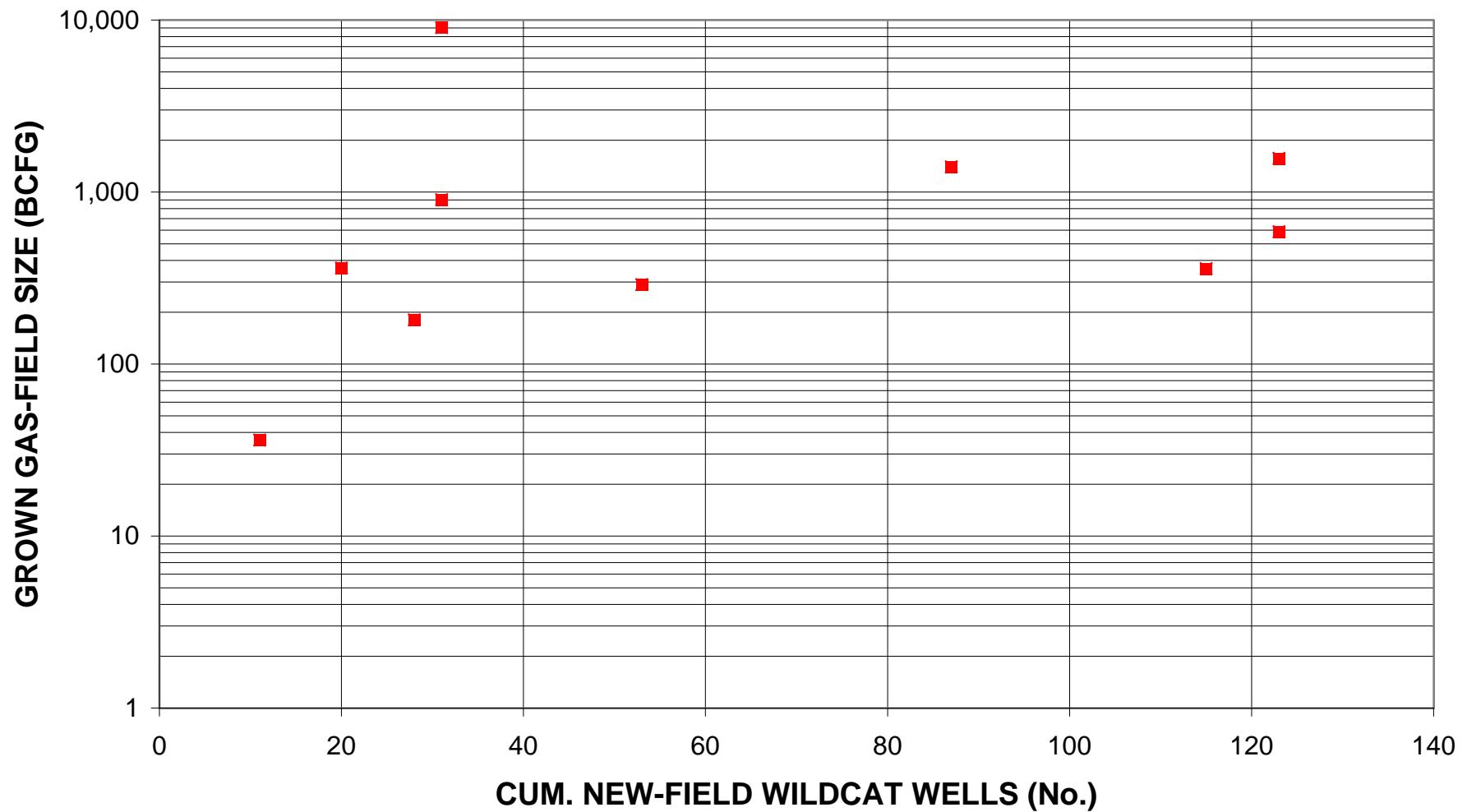
20140101



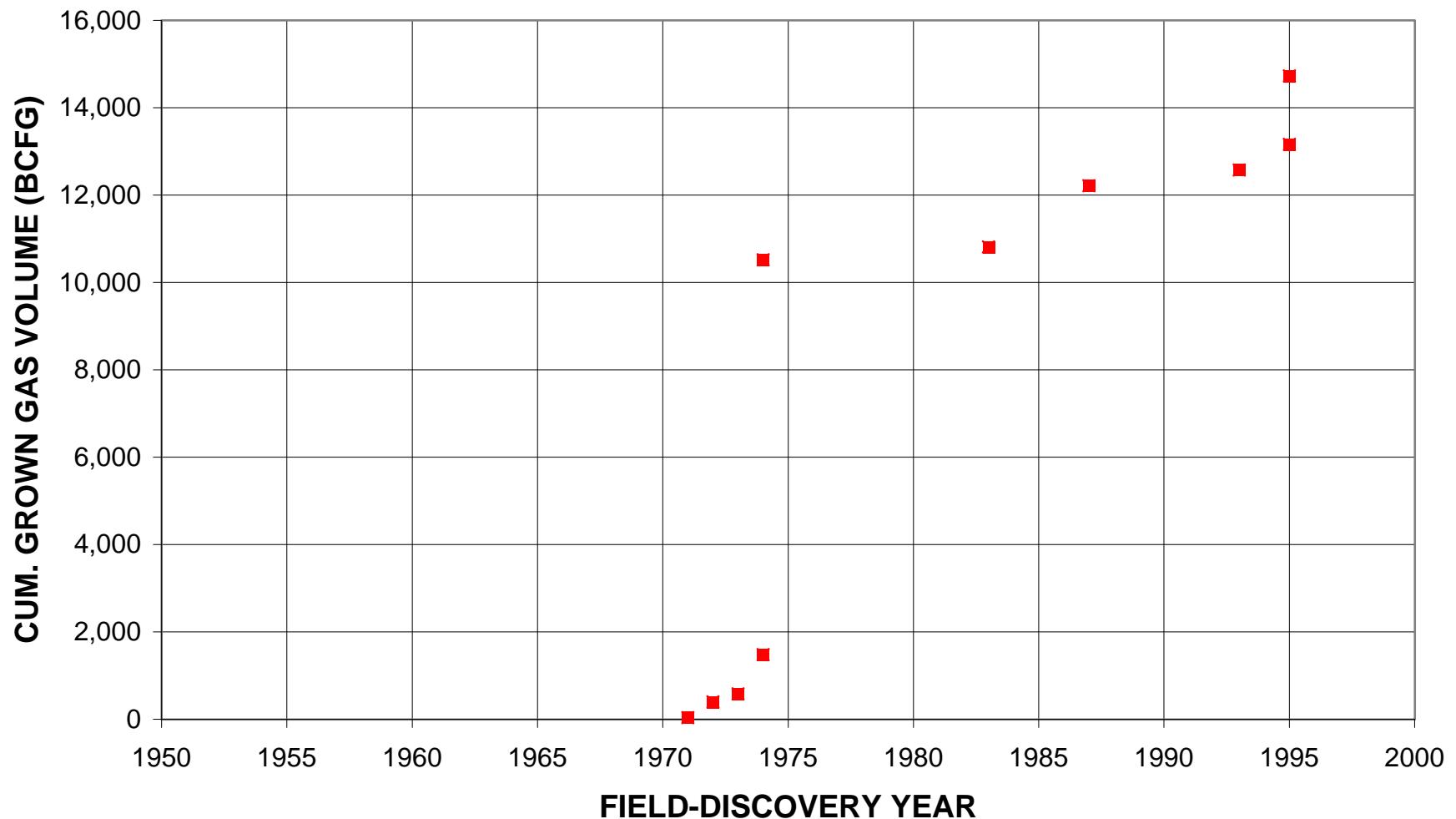
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



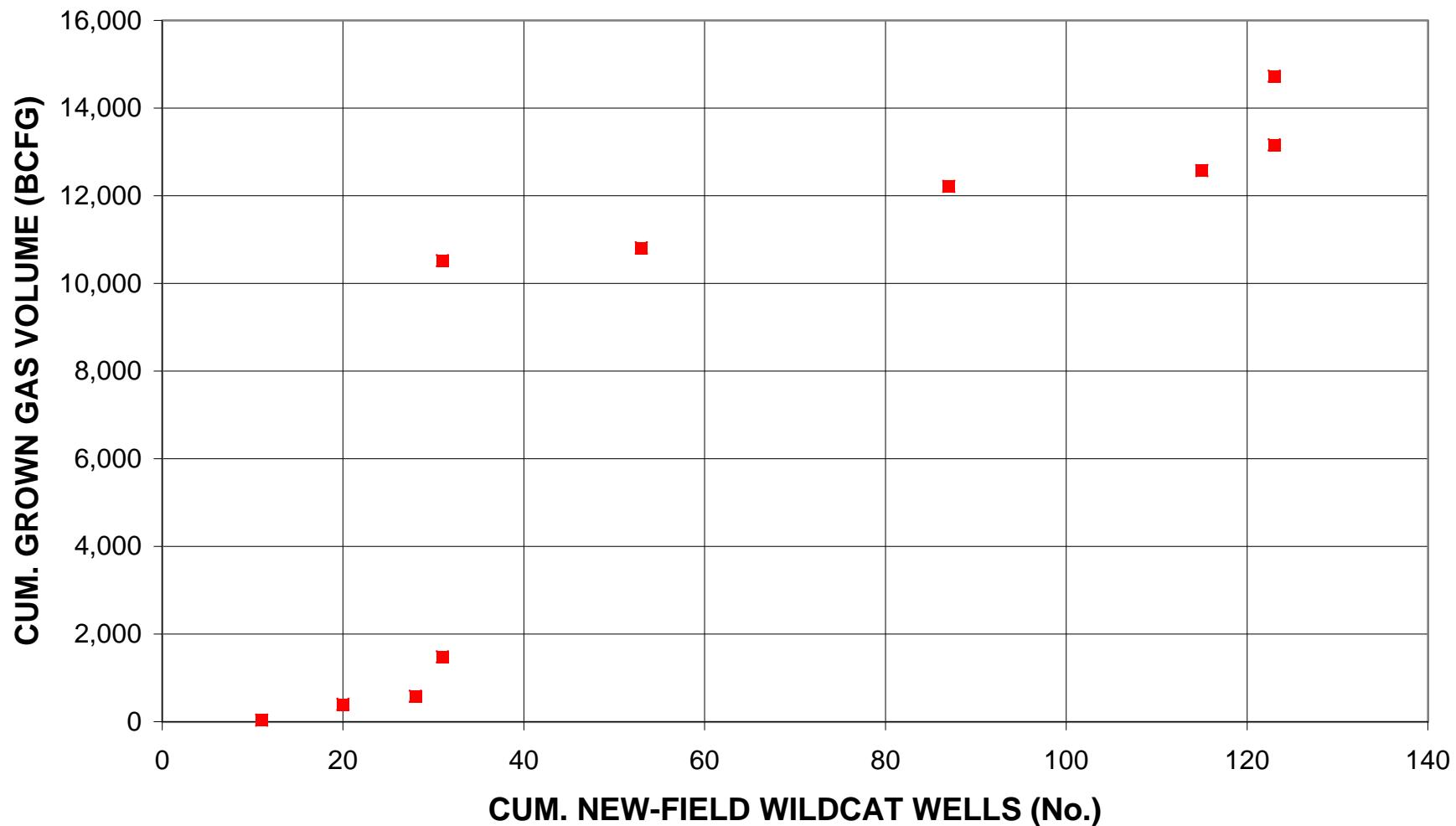
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



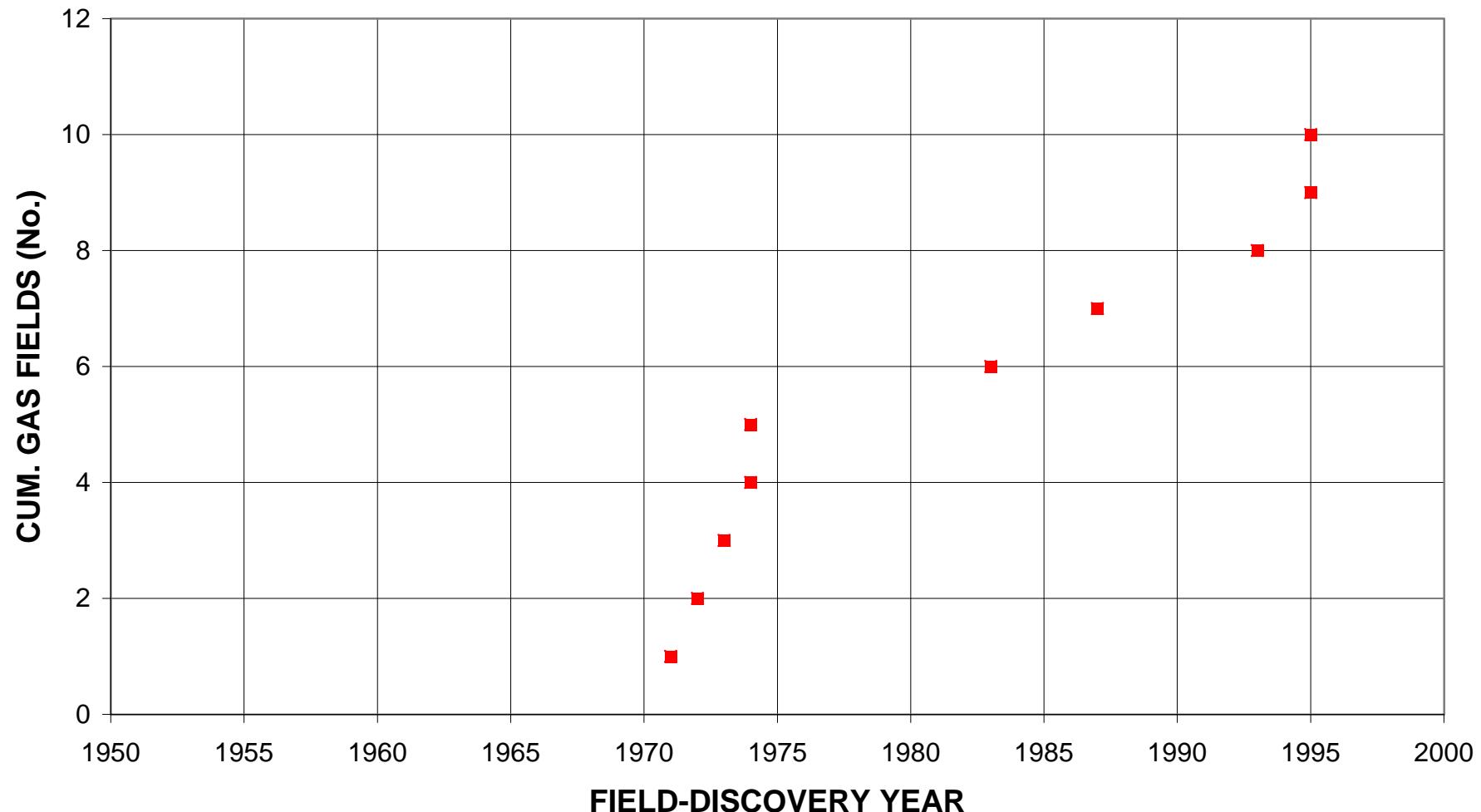
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



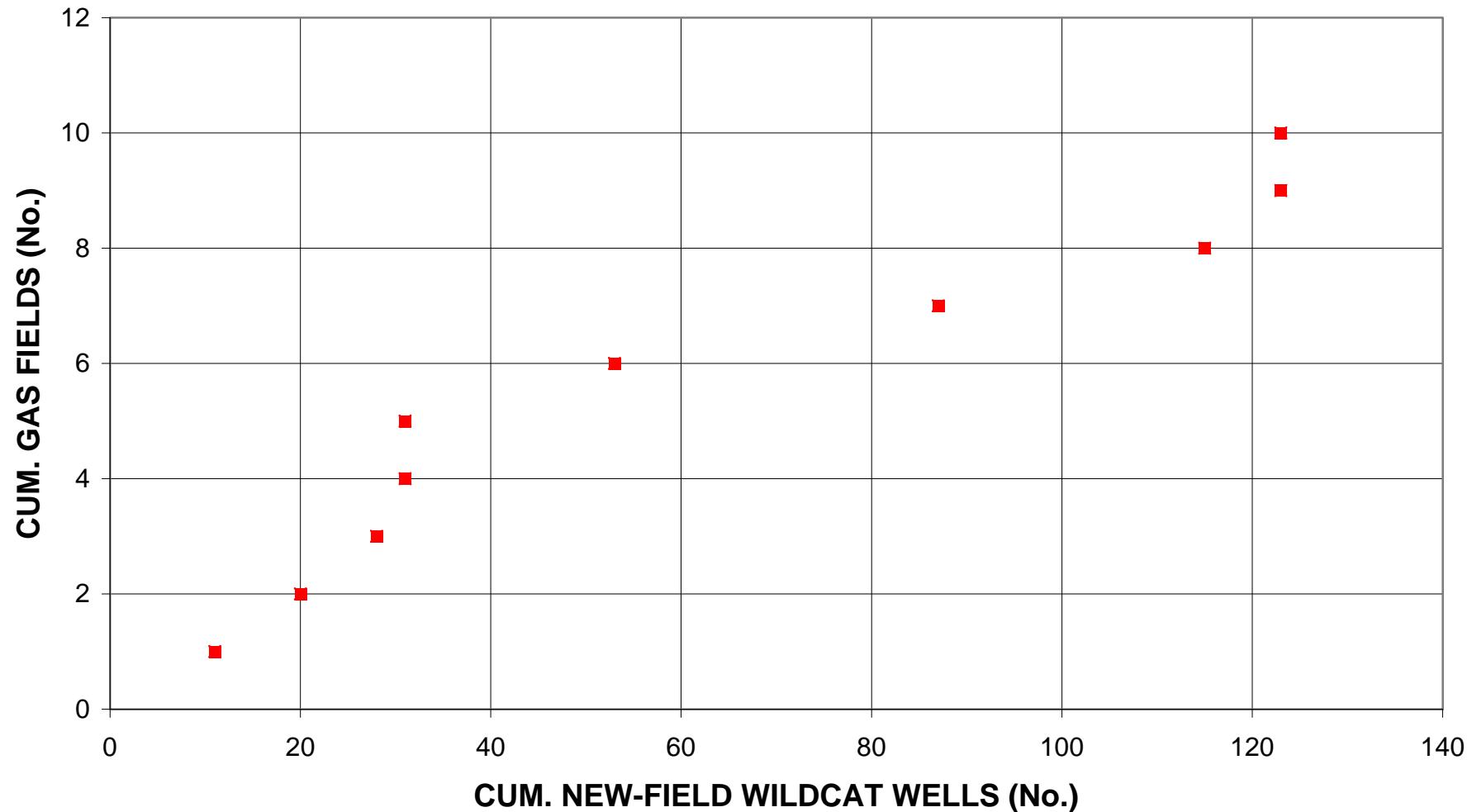
**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



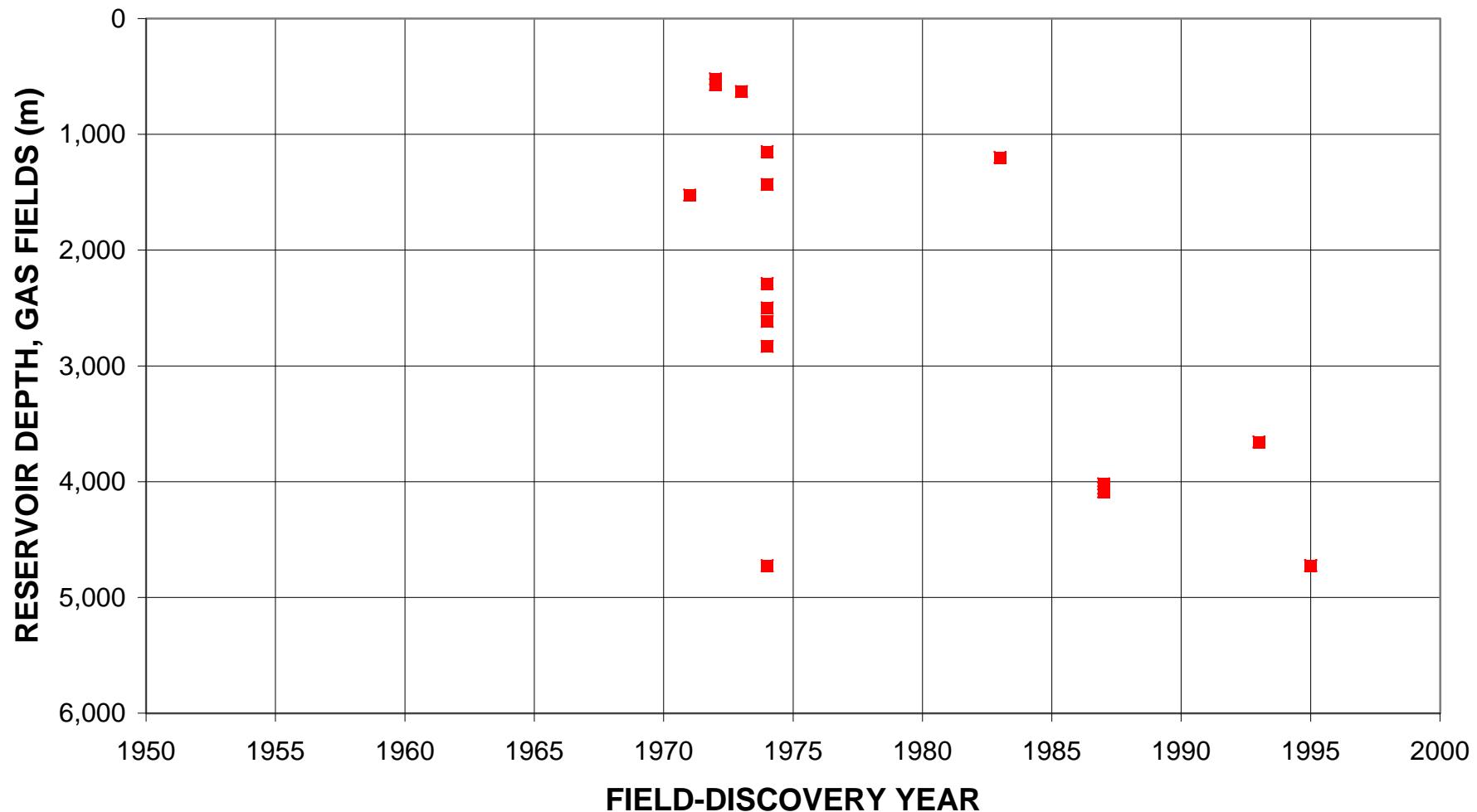
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



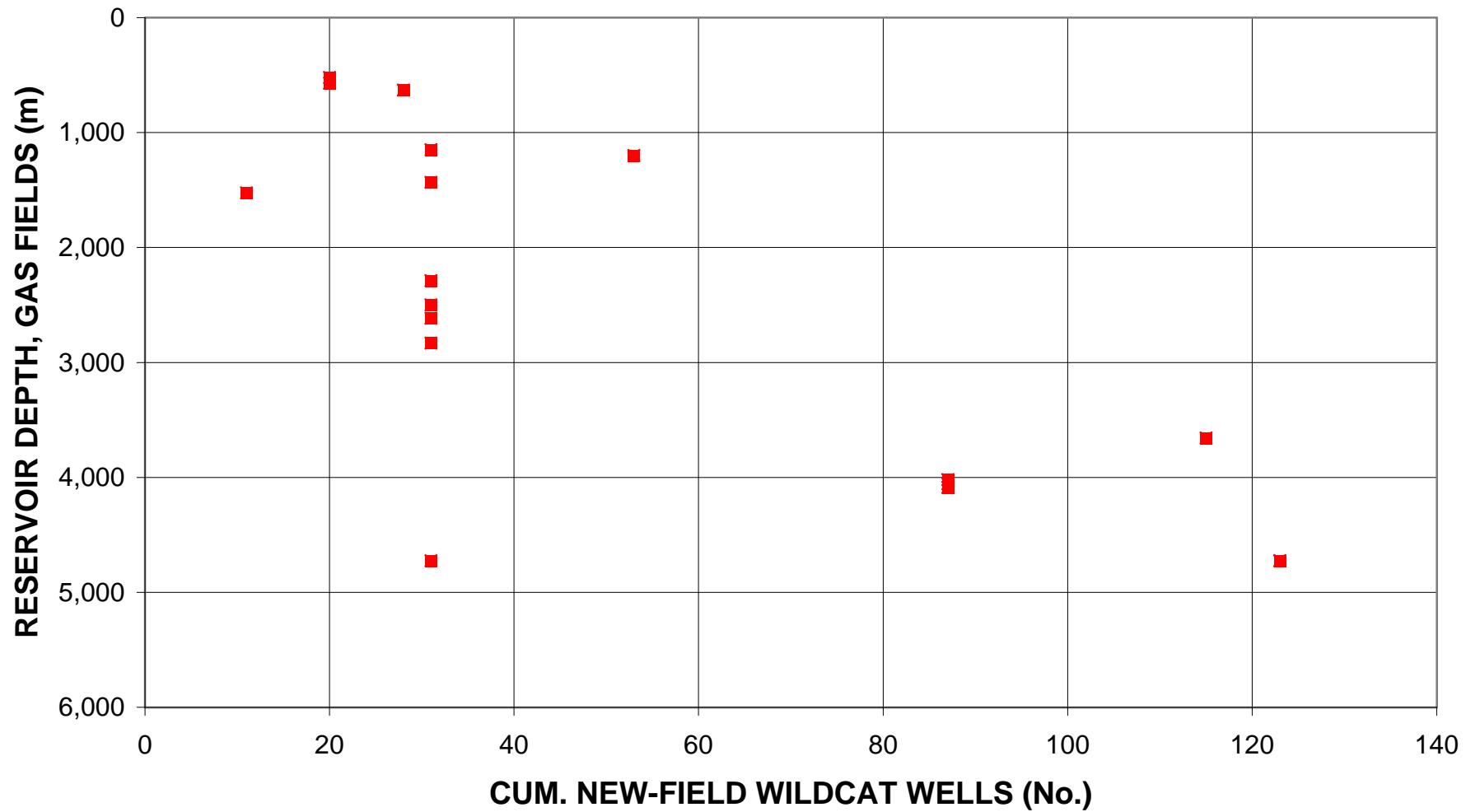
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



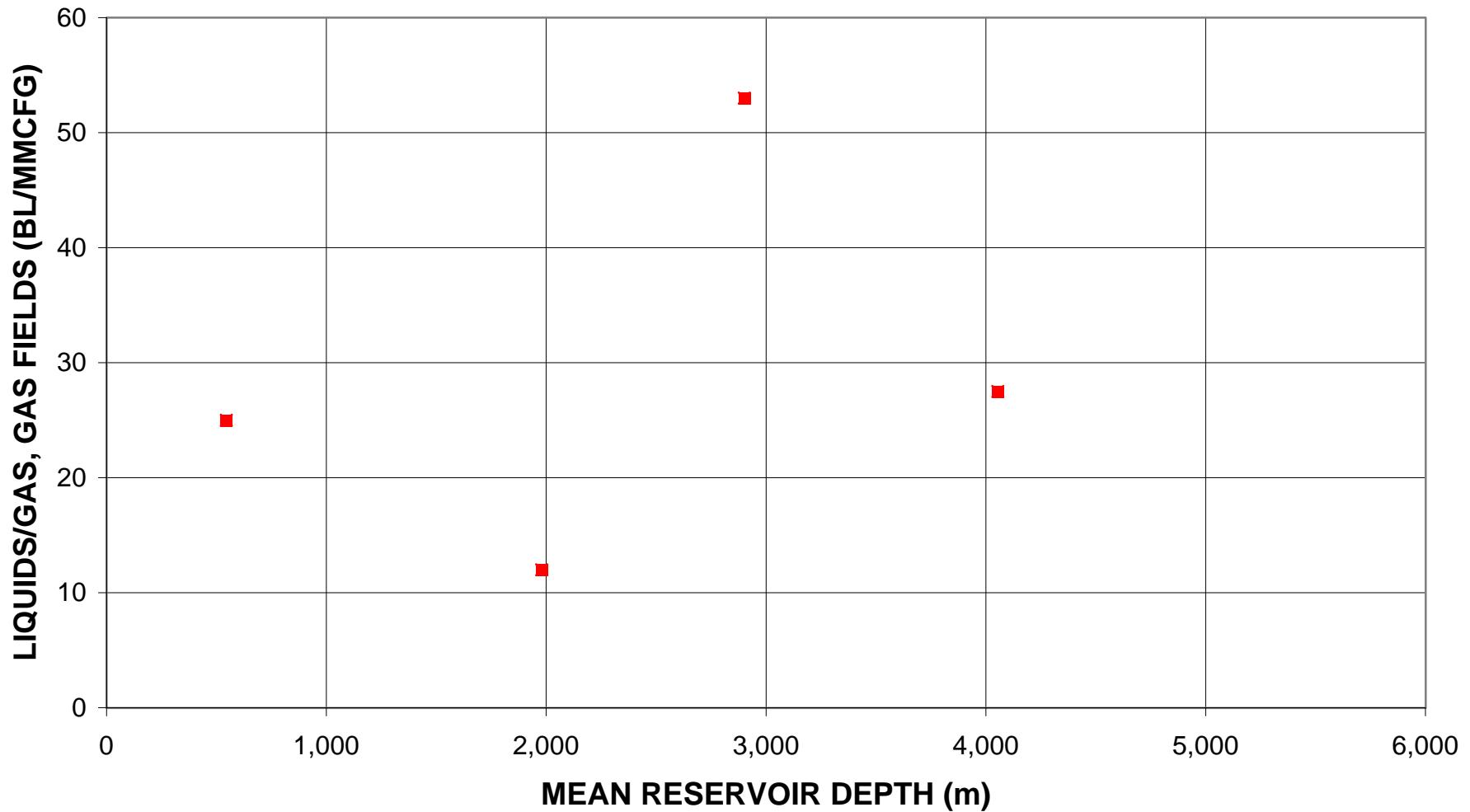
Ghaba-Makarem Combined Structural, Assessment Unit
20140101



Ghaba-Makarem Combined Structural, Assessment Unit
20140101



**Ghaba-Makarem Combined Structural, Assessment Unit
20140101**



Ghaba-Makarem Combined Structural, Assessment Unit 20140101
Volumes of Discovered Petroleum

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. Fields containing less than 1 MMBO in oil fields or 6 BCFG in gas fields were not considered in the assessment. Fields were classified as oil or gas by the USGS. Fields without reported discovery dates were not included. NA means not applicable and is shown for volumes where only one field is present. Calculated values may not be equal to the sums of the component values because numbers have been independently rounded.]

Field Type	Known (Discovered) Volumes				Grown (Discovered) Volumes			
	Number of Fields	Oil (MMBO)	Gas (BCFG)	NGL (MMBNGL)	Number of Fields	Oil (MMBO)	Gas (BCFG)	NGL (MMBNGL)
Oil Fields	42	2,001	13,401	240	44	3,128	18,497	332
Gas Fields	10	26	6,935	267	10	46	14,730	491
Fields <1 MMBOE	5	1	3	0	3	0	6	0
All Fields	57	2,028	20,339	507	57	3,175	33,233	824

Ghaba-Makarem Combined Structural, Assessment Unit 20140101
Discovery-History Sequence

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. Fields containing less than 1 MMBO in oil fields or 6 BCFG in gas fields were not considered in the assessment. Fields were classified as oil or gas by the USGS. The first half or third shows year of first field discovery as well as end of period. NA means not applicable and is shown where fewer than four fields are present.]

Field Type	Discovery-History Sequence - Known (Discovered) Volumes					
		Year (End of Period)	Number of Fields	Total Volume	Mean Size	Median Size
Oil Fields	<u>Known Sizes (MMBO)</u>					
	First third	1964-1983	14	1,565	112	43
	Second third	1987	14	321	23	13
	Third third	1993	14	115	8	5
Gas Fields	<u>Known Sizes (BCFG)</u>					
	All Oil Fields		42	2,001	48	15
	First half	1971-1974	5	5,820	1,164	200
	Second half	1995	5	1,115	223	140
			10	6,935	694	170
All Gas Fields						

Ghaba-Makarem Combined Structural, Assessment Unit 20140101
Discovery-History Sequence

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. Fields containing less than 1 MMBO in oil fields or 6 BCFG in gas fields were not considered in the assessment. Fields were classified as oil or gas by the USGS. The first half or third shows year of first field discovery as well as end of period. NA means not applicable and is shown where fewer than four fields are present.]

Field Type	Discovery-History Sequence - Grown (Discovered) Volumes					
		Year (End of Period)	Number of Fields	Total Volume	Mean Size	Median Size
Oil Fields	Grown Sizes (MMBO)					
	First third	1964-1983	15	2,265	151	68
	Second third	1987	15	604	40	23
	Third third	1993	14	259	19	13
Gas Fields	All Oil Fields		44	3,128	71	29
	Grown Sizes (BCFG)					
	First half	1971-1974	5	10,522	2,104	362
	Second half	1995	5	4,208	842	588
	All Gas Fields		10	14,730	1,473	475